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No. 30.

BUREAU OF NAVIGATION—HYDROGRAPHIC OFFICE.

No. 1.

LIST OF LIGHTS

OF

NORTH AND SOUTH AMERICA
(EAST AND WEST COASTS),

INCLUDING

*BRITISH NORTH AMERICA; THE WEST INDIA ISLANDS, AND THE
ADJACENT COASTS; THE COAST OF BRAZIL, ETC., TO CAPE
HORN; THE PACIFIC COAST OF AMERICA,
AND THE PACIFIC ISLANDS.*

(The Lights of the Coast, &c., of the United States will be found in the Lists published
by the U. S. Light-house Board.)

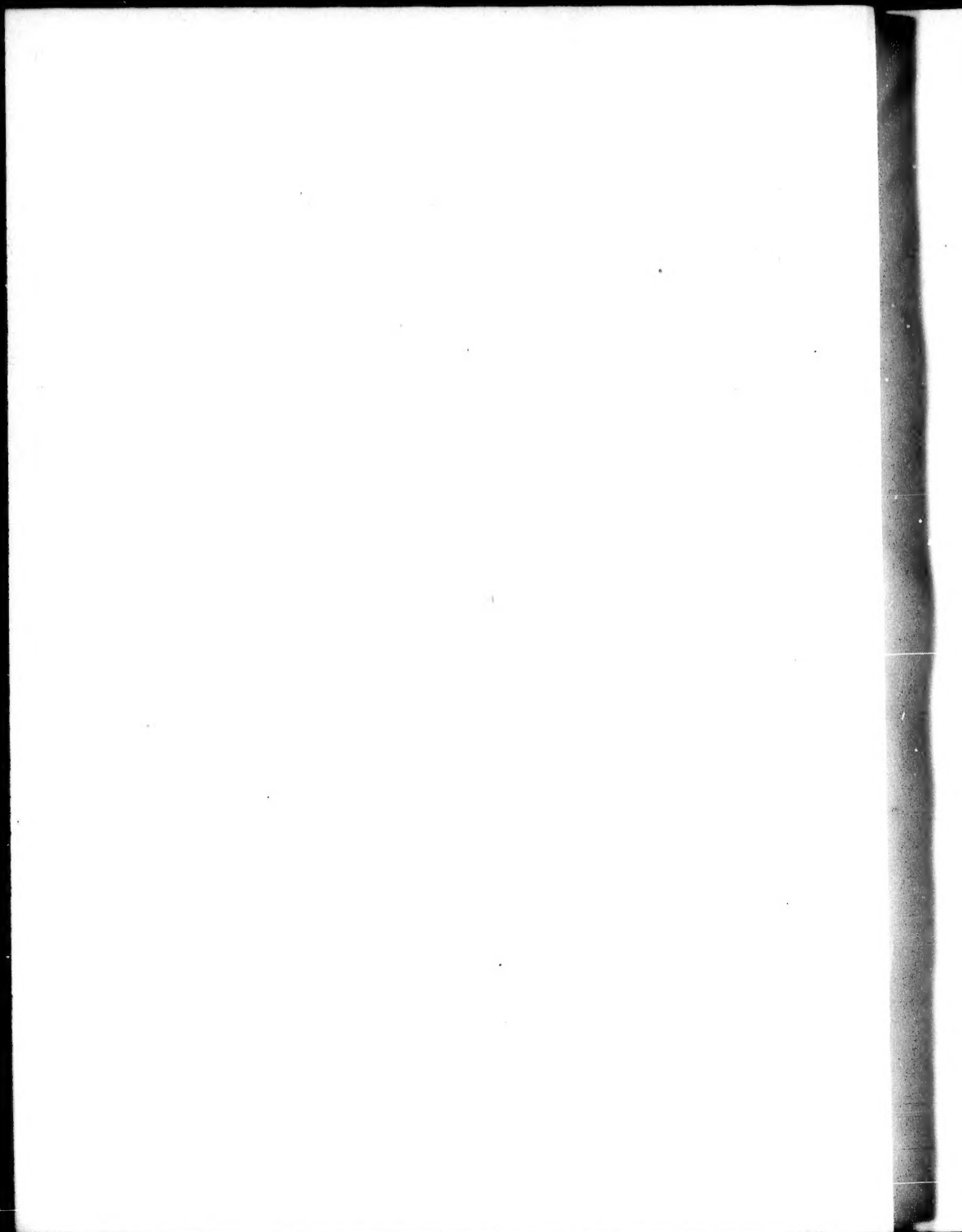
Corrected to January, 1873.

By LIEUT. COMMANDER FELIX MCCURLEY, U. S. N.

(Navigators are requested to inform the U. S. Hydrographic Office, Washington, D. C., of any
omissions or errors they may discover in this List.)

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ABBREVIATIONS AND EXPLANATIONS.

LIGHTS.

F. Fixed or steady.

FL. Flashing. Showing five or more flashes and eclipses, alternately, in a minute.

F. & FL. Fixed light, with a white or red flash, in addition (preceded and followed by a short eclipse), at intervals.

REV. Revolving. Lights gradually increasing to full effect, and gradually decreasing to eclipse, at equal intervals.

INT. Intermittent. Suddenly appearing in view, remaining visible for a certain time, and then as suddenly eclipsed for a shorter time.

ALT. Alternating. Red and bright light, alternately, at equal intervals, without any intervening eclipse.

ILLUMINATING APPARATUS.

C. Catoptric, or by metallic reflectors.

D. Dioptric, or by refracting lenses.

ORD. Order or class of apparatus, numbered from the first to the sixth order.

N. North.	E. East.	S. South.	W. West.
B. Brazil.	Dn. Danish.	M. Mexico.	Spa. Spain.
B.A. Buenos Ayres.	Du. Dutch.	N.G. Nueva Grenada.	U.S. United States.
B.O. Banda Oriental.	E. England.	P. Peru.	V. Venezuela.
C. Chilé.	F. France.	R. Russia.	

The bearings are magnetic, and are given *from* the ship, *not from* the light.

Measurements are in English feet, yards, and nautical miles.

The distance the lights are visible is calculated from a height of fifteen feet above the level of the sea at high water.

TABLE I.

TABLE OF DISTANCES at which objects can be seen at sea, according to their respective elevations and the elevation of the eye of the observer.

Heights, in feet.	Distances, in statute or English miles.	Distances, in geographic or nautical miles.	Heights, in feet.	Distances, in statute or English miles.	Distances, in geographic or nautical miles.	Heights, in feet.	Distances, in statute or English miles.	Distances, in geographic or nautical miles.
5	2.958	2.565	70	11.067	9.598	250	20.916	18.14
10	4.184	3.628	75	11.456	9.935	300	22.912	19.87
15	5.123	4.443	80	11.832	10.26	350	24.748	21.46
20	5.916	5.130	85	12.196	10.57	400	26.457	22.94
25	6.614	5.736	90	12.549	10.88	450	28.062	24.33
30	7.245	6.283	95	12.893	11.18	500	29.580	25.65
35	7.826	6.787	100	13.228	11.47	550	31.024	26.90
40	8.366	7.255	110	13.874	12.03	600	32.403	28.10
45	8.874	7.696	120	14.490	12.56	650	33.726	29.25
50	9.354	8.112	130	15.083	13.08	700	35.000	30.28
55	9.811	8.509	140	15.652	13.57	800	37.416	32.45
60	10.246	8.886	150	17.201	14.91	900	39.833	34.54
65	10.665	9.249	200	18.708	16.22	1,000	41.833	36.28

EXAMPLE: A tower 120 feet high will be visible to an observer whose eye is elevated 15 feet above the water, 17 nautical miles; thus, from the table:

15 feet elevation; distance visible, 4.443 nautical miles.			
120	"	"	12.56
			<hr/>
			17.003

TABLE II.

Table for finding the distance of an object by two bearings, and the distance run between them.

Points.	Difference between the course and the FIRST bearing—points.																
	2	2½	3	3½	4	4½	5	5½	6	6½	7	7½	8	8½	9	9½	10
Difference between the course and the SECOND bearing.	4	1.00															
	4½	0.81	1.23														
	5	0.69	1.00	1.45													
	5½	0.60	0.85	1.17	1.66												
	6	0.54	0.74	1.00	1.35	1.85											
	6½	0.49	0.67	0.88	1.14	1.50	2.02										
	7	0.46	0.61	0.79	1.00	1.27	1.64	2.17									
	7½	0.43	0.57	0.72	0.90	1.11	1.39	1.77	2.30								
	8	0.41	0.53	0.67	0.82	1.00	1.22	1.50	1.87	2.41							
	8½	0.40	0.51	0.63	0.76	0.92	1.09	1.31	1.58	1.96	2.50						
	9	0.39	0.49	0.60	0.72	0.85	1.00	1.18	1.39	1.66	2.03	2.56					
	9½	0.38	0.48	0.58	0.69	0.80	0.93	1.08	1.25	1.46	1.72	2.08	2.60				
	10	0.38	0.47	0.57	0.66	0.76	0.88	1.00	1.14	1.31	1.51	1.76	2.11	2.61			
	10½	0.38	0.47	0.56	0.65	0.74	0.84	0.94	1.06	1.19	1.35	1.55	1.79	2.12	2.60		
	11	0.39	0.47	0.56	0.64	0.72	0.81	0.90	1.00	1.11	1.24	1.39	1.57	1.80	2.11	2.56	
	11½	0.40	0.48	0.56	0.63	0.71	0.79	0.87	0.95	1.05	1.15	1.27	1.41	1.58	1.79	2.08	2.50
	12	0.41	0.49	0.57	0.64	0.71	0.78	0.85	0.92	1.00	1.08	1.18	1.29	1.41	1.57	1.76	2.03
	12½	0.43	0.51	0.58	0.65	0.71	0.77	0.83	0.90	0.97	1.03	1.11	1.20	1.29	1.41	1.55	1.72

RULE.—Multiply the distance run in the interval between the two bearings by the number found in the table under the difference between the course and first bearing, and opposite the difference between the course and second bearing. The product is the distance at the time the second bearing was taken.

EXAMPLE.—A light-house, when first seen, bore W. N.W.; after running W. by 8.16 miles, it bore N. ½ W. Required, its distance when the second bearing was taken.

Difference between course and first bearing = 3 points.

Difference between course and second bearing = 2½ points.

Corresponding tabular number = 0.63

And 16 miles \times 0.63 = 10.08 miles, the distance required.

LIGHTS.

LABRADOR.

Number.	Height of light above sea level.	Distance visible in nautical miles.	Character of light-house or vessel.	Height, in feet, of building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
1	470	28	Circular tower; clap-boarded, and white.	62	D., 1st ord.	1858	Lighted from April 1 to Dec. 15. Visible from about N.W. by N. round by S. to E. A gun is fired every hour during fog and snow-storms. Depot of provisions here for shipwrecked mariners. Var'n in 1870, 38° 10' W.
2	138	20	Hexagonal white building, 100 feet from keeper's dwelling.	40	C.	1871	
3	155	18	Circular tower; clap-boarded, and white.	100	D., 2d ord.	1858	Lighted from April 1 to Dec. 15. A gun fired here every hour during fog and snow-storms.

NEWFOUNDLAND.

4	139	18	Hexagonal white tower, 100 feet from keeper's dwelling.	40	C.	1871	
5	100	12	Circular brick tower.	40	D.	1858	Var'n in 1870, 34° W.
6							
7	150	16	Square tower, with vertical stripes red and white.	36	D., 1st ord.	1843	RED and WHITE, alternately, in every direction seaward. Visible for a quarter of a minute, and half a minute dark. Kept open of Spillers Point clears the Flowers Rocks. Var'n in 1870, 32° 45' W.
8							
9	92	15	Wood; white; roof red.		C., 4th ord.	1857	Visible seaward between the bearings of W. S.W. and N.E.
10							
11	380	28	Circular; brick	34	C., 1st ord.	1858	When the S. part of the island bears N. N.E. $\frac{1}{4}$ E. within the distance of 8 miles, the light is not visible, being obscured by the high land. The keeper's dwelling is white and roof red.
12							
13	151	18	Square wooden house; roof white and red stripes.	35	Altered	1869	On keeper's dwelling. Two bright and one red flash. Visible between the bearings of N. N.E. to S. S.W. Var'n in 1870, 31° W.
14							
15	{ 40 } { 17 }	3 & 11	Wood; white.	32	GAS.	1853	West leads in to clear the spit of 8 feet. Appears as a double light for 3 miles only. Obscured by the Salvage on the bearings of W. $\frac{1}{4}$ S.
16							

NEWFOUNDLAND—Continued.

Number.	Name.	Location.	Latitude.		Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N. ° ' "	W. ° ' "				
17	ST. JOHN'S HARBOR	Fort Amherst, S. side of entrance.	47 33 54	52 40 18	1	F.		
18								
19		Upper light 10 feet from N.E. corner of Congregational Chapel.	47 34 3	52 42 5	1	F. red.		
20								
21		Lower light on top of custom-house.	47 34 2	52 41 47	1	F. red.		
22								
23	CAPE SPEAR	On cape	47 31 11	52 36 59	1	Rev.	Every minute.	
24								
25	FERRYLAND HEAD	East coast of Newfoundland.	47 0 58	52 51 7	1	F.		
26								
27	CAPE RACE	On cape	46 39 24	53 4 20	1	Rev.	Every ½ minute.	
28								
29	CAPE PINE	On cape	46 57 4	53 31 45	1	F.		
30								
31	CAPE ST. MARY	On cape	46 49 30	54 11 34	1	Rev.	Every minute.	
32								
33	BURIN ISLAND	Dodding Head.	47 0 26	55 8 43	1	Rev.	Every 20 seconds.	
34								

NEWFOUNDLAND—Continued.

Number.	Height of light above sea level.	Distance visible, in natural miles.	Character of light-house or vessel.	Height, in feet, of building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
17	114	16	Stone; square	33	C., 4th ord.	1834	On keeper's dwelling. Visible seaward between the bearings of W, S.W. and N. N.E. When Cape Spear or St. John's Harbor is enveloped in fog, a gun is fired every hour during day light. St. John's Chain Rock Battery in lon. 52° 40' 47" W.
18							
19	235					1863	
20							These two lights in one lead through the Narrows, N.W. 1/4 W. Var'n in 1870, 31° 10' W.
21	50					1863	
22							
23	264	22	Wood; square tower, red and white horizontal.	38		1835	Visible seaward.
24							
25	500	16	Red brick tower			1871	Keeper's dwelling painted white, with red roof.
26							
27	180	19	Circular; S.E. face of light-house striped red and white, vertical.	40	C., 1st ord.	1856	A conical beacon stands 50 yards S. from light-house, and telegraph station N. 240 yards from light-house. Visible between the bearings E. S.E. and W, S.W.
28							
29	314	24	Circular; red and white bands.	56		1851	Visible in all directions seaward between the bearings of W by S. and S. E. Var'n in 1870, 30° 30' W.
30							
31	390	26	Circular; brick	40	D., 1st ord.	1860	RED and BRIGHT, alternately.
32							
33	430	27	Circular	25	D., 1st ord.	1858	On keeper's dwelling.
34							

ST. LAWRENCE GULF AND RIVER.

NEWFOUNDLAND—Continued.

Number.	Height of light above sea level.	Distance visible in nautical miles.	Character of light-house or vessel.	Height, in feet, of building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
35	210	20	Nearly square; white...	36	D., 3d. ord.	1862	RED flash, succeeded by two BRIGHT ones. Two guns are fired, at 3 minutes' interval, every 2 hours during fog, from 8 a. m. to 6 p. m. Obscured on the N. by the bluffs of St. Pierre. Var'n in 1870, 28° 5' W.
36							
37	36	6	Square; white.....		C., 4th ord.	.....	These two lights kept in one N.W. lead mid-channel through S. entrance, and indicate the best water between the Bertrand Rocks and Dog Island.
38							
39	64	3	Square; white		C., 4th ord.	1862	RED light, kept in sight to the left of Cape Eagle, working into the N.E. passage, clears to S. of Cape Rouge Shoals. Var'n in 1870, 28° 10' W.
40							
41	408	25	White; a square house; roof red; tower rising from the center.	30	D., 3d. ord.	1865	Visible in all directions, except when obscured by the land between E. S.E. and S.
42							
43	41	20	Wooden hexagonal tower; white.		C.....	1871	The powerful flashing white light make a complete revolution in 24 minutes. At a long distance it appears as a steady light.
44							

ST. LAWRENCE GULF AND RIVER.

45	140	20	Octagonal; wood; white.	40	D., 3d. ord.	1839	Obscured between N. by E. 4 E. and E. N.E. Extinguished when the gulf is obstructed by ice. Var'n in 1870, 27° 10' W.
46							
47	140	20	Octagonal; wood; white.	40	D., 3d. ord.	1831	Steam fog-whistle sounded during a fog, and a gun fired every 4 hours, commencing at 4 a. m. Visible on all bearings, except between S. S.E. and W. Extinguished when the gulf is obstructed with ice.
48							
49	.....	20	Hexagonal wooden tower; white.		C.....	1871	Shows red 30 seconds. white 30 seconds.
50							

ST. LAWRENCE GULF AND RIVER—Continued.

Number.	Name.	Location.	Latitude.		Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N.	W.				
51	MAGDALEN ISLANDS.....	E. end Great Bird Rock	47 50 40	61 8 20	1			
52								
53	ROZIER CAPE	On cape	48 51 37	64 12 0	1		F.	
54								
55	GASPÉ BAY	N.W. by N., 12 miles from the cape.	48 51 0	64 25 0	1		F.	
56								
57		O'Hara Point, Wharf Basin	48 49 53	64 31 41	1		F.	
58								
59	GASPÉ HARBOR	Off Sandy Beach Point	48 50 45	64 24 30	2	Vertical, 6 ft. apart; upper white, lower red.	{ F. } { F. red. }	
60								
61	ANTICOSTI ISLAND.....	Heath Point	49 5 20	61 41 48	1		F.	
62								
63		Begots Bluff	49 4 0	62 15 0	1		Fl.	20 seconds
64								
65		S.W. point	49 23 45	63 35 46	1		Rev.	Every minute....
66								
67		Extreme W. point	49 52 30	64 32 0	1		F.	
68								
69	CAPE MAGDALEN.....		49 15 40	65 19 30	1		Rev.	2 minutes.....
70								

ST. LAWRENCE GULF AND RIVER—Continued.

Number.	Height of light above sea level.	Distance visible, in nautical miles.	Character of light-house or vessel.	Height, in feet, of building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
51	140	21	White frame building....	50	D., 2d ord.	1870	White dwelling 300 feet distant. Var'n in 1870, 27° 30' W.
52							
53	136	16	Circular tower; faced, clapboarded, and white.	112	D., 1st ord.	1858	A gun is fired every hour during fog and snow-storms. Var'n in 1868, 26° 16' W.
54							
55	40	11				1867	Var'n in 1870, 26° 20' W.
56							
57	20	7					RED light only when mail steamers are expected.
58							
59	{ 35 } { 29 }	7	Red light-ship		{ 1871 1872 }		{ For guiding vessels into the harbor.
60							
61	110	15	Circular tower; faced, clapboarded, and white.	90		1835	The light-house must always be kept open southward of Cormorant Point. Visible between the bearings of N. N.W. to N.E. by N. Depot of provisions here for shipwrecked mariners. Lighted from April 1, to December 15.
62							
63	75	14	White hexagonal wooden building.	54	C.....	1871	Keeper's dwelling, also of wood, painted white, and stands about 150 feet E. from the tower.
64							
65	100	15	Circular tower; gray stone.	75		1831	Visible between the bearings of N. N.W. and S.E. by E. round by N.
66							
67	112	15	Circular tower; clapboarded, and white.	109	D., 2d ord.	1858	A gun is fired every hour during fog and snow-storms. Depot of provisions for shipwrecked mariners.
68							
69	147	R. 15 B. 20	Hexagonal white wooden building.	54	C.....	1871	Shows RED and WHITE every 4 minutes, there being an interval of 2 minutes between each flash.
70							

ST. LAWRENCE GULF AND RIVER—Continued.

Number.	Height of light above sea level.	Distance visible in natural miles.	Character of light-house or vessel.	Height in feet of building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
71	110	18	Low square tower, with dwelling-house combined, all white.	37	C.....	1871	Is visible from all points seaward, except east, in which direction it is obscured by Chatte Point and Cape Anne.
72							
73	195	20	Square white tower, over house.	35	C.....	1871	Destroyed by fire. Discontinued for the present.
74	70	15	Octagonal tower, on keeper's dwelling.	35	C.....	1871	
75	100	15	Circular tower; clap-boarded, and white.	75		1830	Depot of provisions for shipwrecked mariners. A gun will be fired every hour during fogs or snow-storms from April 1 to Dec. 15. Var'n in 1870, 25° W.
76	{ 34 } { 27 }	12	Black light-vessel, with "Manicougan, Quebec," on her stern.		D.....	1872	The vessel is moored in 25 fathoms, and lies 4 miles from land. East Peninsula bears N.E., West Peninsula W. N.W. During thick and foggy weather and during snow-storms a steam fog-whistle will be sounded as follows: A blast of 8 seconds, an interval of 8 seconds, then another blast of 8 seconds, after which an interval of 2 minutes and 20 seconds. It will probably be heard at the following distances: In calm weather or with the wind, from 10 to 20 miles; in stormy weather or against the wind, from 3 to 8 miles.
77	43	10	Octagonal; white.			1859	Pilots stationed here. Lighted from April 10 to Dec. 10.
78							
79	112	17	Circular; gray stones	65		1844	A gun fired every half hour during fog and snow-storms from April 10 to Dec. 15. Lighted from April 10 to Dec. 15.
80							
81	34	12	Red light-vessel, with "Red Island Light" on her sides.		C.....	1871	The vessel is moored during season of navigation in 10 fathoms, in a northeasterly direction from Red Islet, with the latter a little open of Hare Island, and with the RED BUOY about ½ mile distant in a W. S.W. direction. During thick or foggy weather or snow-storms a steam fog-whistle will be sounded from the light-vessel 10 seconds in every minute. The whistle will probably be heard at the following distances: In calm weather..... 15 miles. With the wind..... 20 miles. Stormy weather..... 5 to 8 miles. Against the wind..... 3 to 5 miles.
82	35	10	Square; wood, painted white.	29	C.....	1872	
83	75	12	Circular; gray stones	51		1848	Lighted from April 10 to Dec. 10.
84							
85	60	13	Octagonal; clapboarded, and white.	40		1809	Lighted from April 10 to Dec. 10. A gun fired every half hour during fog and snow-storms.
86							
87	78	10	Brick; drab color.	39	D., 4th ord.	1862	Lighted from April 10 to Dec. 10.
88							

ST. LAWRENCE GULF AND RIVER—Continued.

Number.	Name.	Location.	Latitude.	Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N. " " W. "				
89	LONG PILGRIMS	20 fathoms W. of center of island, and 54 fathoms S. from water's edge.	47 43 15	69 45 0	1	F.	
90							
91	GRANDE ISLE KAMOURASKA.	120 fathoms from N.E. end of island; 80 fathoms from water's edge.	47 38 0	69 52 0	1	F.	
92	ST. ROQUE SHOAL	Light-vessel on N.W. edge of shoals.	47 22 30	70 17 0	2	F.	
93	S. TRAVERSE	Light-vessel N.E. part of St. Roque Shoal.	47 22 10	70 14 56	2	Main light 4 ft. higher than the other.	F.
14							
95	STONE PILLAR	50 fathoms from S. point of islet.	47 12 25	70 21 36	1	Rev.	Every minute and a half.
96							

ST. LAWRENCE RIVER.

97	CAPE ROUGE	River St. Lawrence	47 7 30	70 42 45	1	F.	
98							
99	CRANE ISLAND	1½ miles from W. point of island.	47 3 0	70 33 —	1	F.	
100							
101	BELLE CHASSE	E. end of island.	46 56 0	70 46 0	1	F.	
102	ST. LAWRENCE POINT	Orleans Island.	46 50 0	71 2 0	1	F.	
103	ST. ANTOINE	S. shore	46 39 53	71 36 19	1	F.	
104							
105	ST. CLOIX	On shore, near high-water mark, and ¼ of a mile N. of church.	46 37 45	71 44 10	1	F.	
106							

ST. LAWRENCE GULF AND RIVER—Continued.

Interval of revolution or flash.	Number.	Height of light above sea level.	Distance visible, in nauti- cal miles.	Character of light-house or vessel.	Height, in feet, of build- ing from base to vase.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
	89	180	12	Brick; drab color	39	D, 4th ord.	1862	Lighted from April 10 to Dec. 10.
	90							
	91	166	18	Wood	39	C	1862	Var'n in 1870, 19° 20' W.
	92	{ 24 16 }		Light-vessel; two masts			1871	In thick or foggy weather or snow-storms a bell will be tolled. If, from any accident, the light-vessel should be out of position, the light on the foremast only will be exhibited, and during the day the ball at the foremast-head will be taken down.
	93		9	Two masts			1836	The ship's bell is kept tolling during fogs and snow-storms.
	94							
	95	68	13	Stone; conical; white ...	38		1843	Lighted from April 10 to Dec. 10.
	96							

ST. LAWRENCE RIVER.

	97	175	10	Square white wooden building.	24	C	1871	
	98							
	99	44	10	Wood	37	C	1862	Var'n in 1870, 17° 50' W.
	100							
	101	70	13	Wood	30	C	1862	
	102	38	8	White		C	1869	
	103	96	10	Wood; white			1858	Var'n in 1870, 15° 55' W.
	104							
	105	30	6	Wood; white	20		1842	A small light, to assist in keeping in channel for some distance up and down the river.
	106							

ST. LAWRENCE RIVER—Continued.

Number.	Name.	Location.	Latitude.	Longitude.	Number of lights and relative positions.	Character of light	Interval of revolution or flash.
107	FORT NEUF.....	On N. shore, $\frac{1}{2}$ of a mile off the river.	$46^{\circ} 41' 48''$ N. light.	$71^{\circ} 52' 10''$	2 S.W. & N.E., nearly 180 yards apart.	F.	
108							
109	PLATON POINT.....	On S. side, $1\frac{1}{2}$ miles below Richelieu Island.	$46^{\circ} 39' 13''$ N. light.	$71^{\circ} 53' 3''$	2 S. 72° W., 160 yards apart.	F.	
110							
111	RICHELIEU.....	Center of island.....	$46^{\circ} 28' 24''$	$71^{\circ} 54' 51''$	1	F.	
112							
113	LANGLAIS POINT.....	On S. shore, $\frac{1}{2}$ a mile below Great Chene River.	$46^{\circ} 35' 5''$	$71^{\circ} 59' 35''$	1	F.	
114							
115	CAPE CHARLES.....	On cape.....	$46^{\circ} 33' 39''$	$72^{\circ} 4' 15''$	2 N. 67° W., 80 yards apart.	F.	
116							
117	GRONDINE.....	N. shore.....	$46^{\circ} 35' 49''$	$72^{\circ} 4' 12''$	2 S. 66° W., 1,350 yards apart.	F.	
118							
119	ST. PIERRE DES BECQUETS.....	S. shore, summit of St. Pierre Point.	$46^{\circ} 30' 28''$	$72^{\circ} 12' 30''$	1	F.	
120							
121	BATISCAN.....	N. shore, $1\frac{1}{2}$ miles below Batiscan Church.	$46^{\circ} 30' 16''$ S. light.	$72^{\circ} 14' 52''$	2 S. 73° W., 222 yards apart.	F.	
122							
123	CHAMPLAIN.....	N. shore, near Champlain Church.	$46^{\circ} 26' 34''$	$72^{\circ} 20' 32''$	1	F.	
124							

ST. LAWRENCE RIVER—Continued.

Interval of revolution or flash.	Number.	Height of light above sea level.	Distance visible, in nauti- cal miles.	Character of light-house or vessel.	Height in feet of build- ing from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
	107	{ 900 120 }	5	Both stone, and white; the lower lantern is on roof of house.			1842	These lights in one lead up Richelieu Channel to the light on Richelieu Island.
	108							
	109	{ 152 130 }	12	Wood; octagonal; white	{ 24 7 }		{ 1816 1824 }	These lights lead up the Richelieu. Var'n in 1870, 15° 30' W.
	110							
	111	27	6	Octagonal; stone			1817	This light and the lights on Platon Point are very nearly in the same line of bearing, namely, N. 73° E.
	112							
	113	35	5	Wood	8		1844	To show off Battures des Grondines, and to avoid Battures Cordin, and as a steering point for Richelieu.
	114							
	115	110	4	Wood	20		1856	Lead to and from Cap à la Roche and Cape Charles, and to answer as a steering point through Richelieu.
	116							
	117	{ 50 25 }	5 each.	Octagonal; wood; white	30		1857	To lead off Cap à la Roche to Levrard.
	118							
	119	85	5	Wood; octagonal; white.	12		1844	To indicate the widest berth off Cap à la Roche. Var'n in 1870, 14° 10' W.
	120							
	121	{ 39 20 }	3	Wood; octagonal; white.	{ 31 11 }		1844	To lead through Levrard, and clear Batture St. Ann on S, and Poullier on N.
	122							
	123	30	4	Wood; octagonal; white.	10		1844	Steering point for lower part of Bay of Champlain.
	124							

ST. LAWRENCE RIVER—Continued.

Number.	Name.	Location.	Latitude.	Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N. " " "	W. " " "			
125	CAPE MADELEINE	Lower lights, N. shore, 3 miles below cape.	46 23 46 S. light.	72 27 16	2	S. 60° W., 900 yards apart.	F.
126							
127		Upper lights, N. shore, 2 miles below cape.	46 23 16 W. light.	72 28 38	2	S. 85° W., 235 yards apart.	F.
128							
129	ST. FRANCIS PORT	S. shore; high light on a pier	46 16 20 W. light.	72 37 15	2	S. 76° W., 3,240 yards apart.	F.
130							
131	POINT DU LAC	N. shore	46 16 30	72 40 22	1		F.
132							
133	ST. PIERRE'S LAKE.	East	Light-vessel, in lake	46 15 56	72 42 18	1	F.
134							
135		Center	Light-vessel, S. S. E. 2½ miles from Rivière du Loup.	46 11 30	72 53 20	1	F.
136							
137		Western	Light-vessel, N. side of channel, N. E. by N, 3 miles from Flat Island.	46 9 39	72 56 50	1	F.
138							
139	Isle aux Raisins	On island	46 6 14	72 57 50	1		F.
140							
141		S. part of island	46 6 0	72 58 0	1		F.
142							
143	STONE OR ISLE À LA PIERRE.	On E. part of island	46 5 54	72 59 40	1		F.
144							

ST. LAWRENCE RIVER—Continued.

Number.	Height of light above sea level.	Distance visible, in nautical miles.	Character of light-house or vessel.	Height, in feet, of building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
125	{ 53 } { 31 }	4	Wood; octagonal; white.	{ 13 } { 10 }		1843	To clear Batture Bigot. Var'n in 1870, 14° 29' W.
126							
127	{ 55 } { 35 }	6	Wood; octagonal; white.	{ 30 } { 10 }		1843	To clear Pouliller Provenché.
128							
129	{ 31 } { 12 }	3 each.		{ 21 } { 4 }		1839	These lights, in one with the eastern light-vessel on lake, lead up through the dredged channel. S. 70° W. High light removed in winter.
130							
131	71	12		24		1843	Shows the turn of channel at Point du Lac.
132							
133	15	6	Red.....	8			Removed at the approach of winter on account of ice. On south side of Petite Traverse, off Rivière du Loup.
134							
135	15	6	Red.....	8		1816	Removed at the approach of winter on account of ice. To indicate the turn of the channel, and leads to No. 2.
136							
137	15	6	Red.....	8		1828	In connection with Isle à la Pierre, and bearing in line with No. 1, and to avoid Battures St François and à la Carpe. Var'n in 1870, 12° 53' W.
138							
139	30	6	Red.....	20		1843	To lead from the entrance of the Batture of Lake St Peter to No. 1 light-vessel, up and down.
140							
141			Red.....			1863	
142							
143	30	6	Red.....				Indicates entrance to channel, and leads to No. 1.
144							

ST. LAWRENCE RIVER.—Continued.

Number.	Name.	Location.	Latitude. ° N. " "	Longitude. ° W. " "	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
145	LA VALTRIE	S. side of island	45 52 55 N. light.	73 16 0 2	8.38° W., 320 yards apart.	F.	
146							
147	TRAVLESE	2½ miles above Contrecoeur ..	45 49 59 N. light.	73 17 0 2	8.38° W., 1,500 yards apart.	F.	
148							
149	ISLE AUX PRUNES	Opposite Vercheres	45 46 50	73 52 30 1		F.	
150							
151	REPENTIGNY	½ of a mile below Repentigny.	45 45 2 N. light.	73 26 8 2	8.29° W., 170 yards apart.	F.	
152							
153	ISLE À LA BAGUE	On islet	45 44 14	73 26 5 1		F.	
154							
155	ST. THERESE	On island	45 41 29 N. light.	73 27 40 2	8.50° W., 220 yards apart.	F.	
156							
157	POINT AUX TREMBLES	N. shore	45 38 26 E. light.	73 29 20 2	8.40° W., 600 yards apart.	F.	
158							
159	MONTREAL	On Island Wharf	45 30 22	73 33 14 2	8.41° W., 75 yards apart.	F. red.	
160							
161	LACHINE	On pier at entrance of canal, N. shore.	45 27 0	73 41 0 1		F.	
162							

ST. LAWRENCE RIVER—Continued.

Number.	Height of light above sea level.	Distance visible, in nautical miles.	Character of light-house or light.	Height, in feet, of building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
145 { 21 { 13 }	7	Red		{ 17 { 9 }		1831	Leads to channel called Flat Island.
146							
147		Wood; white; square				1858	To lead into La Valtrie Channel and Isle Bouchard, and indicates the new channel to be kept in line till La Valtrie lights are brought to bear.
148							
149		Octagonal; wood; white				1866	To clear the channel.
150							
151 { 30 { 14 }	4	Wood; white		{ 30 { 14 }		1843	To lead through Isle à la Baguette Channel, and to avoid Poulitier on the N. and shoal on S.
152							
153 { 24 { 4 }	4	Wood; white; octagonal				1831	To indicate the island, being extremely low land. Removed in winter on account of ice.
154							
155		4 Wood; white; square					Leads to entrance through Vercheres Channel, up and down the river. Var'n in 1870, 191° W.
156							
157 { 53 { 25 }	6 { 4 }	High and low; octagonal; wood; white.				1846	To lead through the channel between Point aux Trembles and Varennes up to Longue Point.
158							
159 { 28 { 23 }	4 each.	{ Wood; octagonal		{ 31 { 21 }		1830	Indicates the deepest channel to and from the harbor. Var'n 1870, 11° 45' W.
160							
161 { 21 { 6 }	6	Square; wood; white		17		1849	Var'n in 1870, 11° 25' W.

ST. LAWRENCE RIVER—Continued.

Number.	Name.	Location.	Latitude.		Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N. ° ' "	W. ° ' "				
163	LAKE ST. LOUIS	Light-vessel, 0.8 mile above Lachine.	45 26 30	73 42 10	1		F.	
164								
165		Light vessel, $2\frac{1}{2}$ miles above Lachine.	45 25 40	73 44 15	1		F.	
166								
167	WADF SHOAL	N. side of Ottawa River	45 25 0	75 57 0	1		F.	
168								
169	OTTAWA RIVER.	Light-vessel, S. side of channel, 63 chains above Dewal from light No. 3, on St. Lawrence, near Claire Point.	45 24 30	73 45 20	1		F.	
170		Claire Point						
171		On shoal, N. side of channel, about $1\frac{1}{2}$ miles below Point Claire, 120 ch's westerly from light-ship near Point Claire.			1		F.	
172								
173		Green Shoal. On pier, S. side of channel, 7 miles below Ottawa City.			1		F.	
174		Point l'Original	45 42 0	74 46 15	1		F.	
174½		McTavish Point	45 50 0	74 52 30	1		F.	
175	CHATEAUGAY	Light-vessel, $4\frac{1}{2}$ miles above Lachine.	45 24 0	73 49 18	1		F.	
176								
177	BEAU HARNOTS	Lower entrance of canal, S. shore.	45 19 —	73 54 —	2	N. 61° E., 414 yards apart.	F.	
178								
179	GROSSE POINT	Upper entrance of Beauhar- nois Canal.	45 15 35	74 9 25	2		F.	
180								

ST. LAWRENCE RIVER—Continued.

Interval of revolution or flash.	Number.	Height of light above sea level.	Distance visible, in nauti- cal miles.	Character of light-house or vessel.	Height, in feet, of build- ing from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
	163	20	6	Circular; iron; red			1849	
	164							
	165	20	6	Red				
	166							
	167	35	8	Wooden tower; hexagonal; two sides next to river white, the others brown.	25	C	1870	Can be seen on approaching it in both directions.
	168							
	169	21	6	Iron	17			
	170							
	171	20	7	Wood	25			
	172							
	173	36	9	Wood	17			
	174	45	6	Hexagonal white tower	30	C	1871	
	174½	35	6	Hexagonal white tower on a pier.	30	C	1871	
	175	20	6	Red			1849	
	176							
	177		10	Wood; square frames			1850	In one lead to Chateauguay Light. Var'n in 1870, 11° W.
	178							
	179	20	8	Square; wood	20		{ 1845 1850 }	To be kept in one, when leaving the canal, till the upper lights come in one.
	180							

ST. LAWRENCE RIVER—Continued.

Number.	Name.	Location.	Latitude. N. ° ' "	Longitude. W. ° ' "	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
181	OFF GROSSE POINT.....	On piers in river	° ' "	° ' "	2	F.	
182							
183	Coteau du lac.....	N. shore, at head of rapids, in village.	45 16 30	74 11 45	1	F.	
184							
185	McGee's Point.....	N. shore.....	45 12 25	74 19 10	1	F.	
186							
187	Cherry Island.....	S. side of N. channel.....	45 9 —	74 22 —	1	F.	
188							
189	Cherry.....	Light-vessel above island.....	45 8 20	74 25 40	1	F.	
190							
191	Crib.....	N. side of channel, on a pier, 4 miles S. W. from Lancaster village.	45 7 —	74 30 —	1	F.	
192							
193	Cornwall Canal.....		45 1 15	74 55 25	1	F.	
194							
195	COLE'S SHOAL.....	On pier, 5 miles W. of Brook- ville, $\frac{1}{4}$ of a mile from N. shore.			1	F.	
196							
197	GRENADIER ISLAND.....	S. W. point of island, N. side of channel, 2 miles below Rockport.			1	F.	
198							
199	LYNDOCK ISLAND.....	N. W. point of island, S. side of channel, 5 miles W. of Rockport.			1	F.	
200							

ST. LAWRENCE RIVER—Continued.

Interval of revolution or flash.	Number.	Height of light above sea level.	Distance visible in nau- tical miles.	Character of light-house or vessel.	Height in feet of build- ing from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
	181		3	Square; wood; red.....			1850	
	182							
	183	50	6	On top of a house.....	14		1848	Not lighted since 1863. Var'n in 1870, 10° 20' W.
	184							
	185	30	10	Square; wood.....	21			Midway between Coteau and Cherry Island.
	186							
	187	40	10	Square; wood.....	30		1847	
	188							
	189						1849	Opposite the light there is a beacon, N. of the channel.
	190							
	191	20	8	Square; wood.....	20		1844	
	192							
	193						1865	Var'n in 1870, 9° 40' W.
	194							
	195	33	6	White; square; wood....	31	C.....	1856	These small lights are for the purpose of marking out the channel through the Thor and Islands, between Brockville and Kingston. Var'n in 1870, 7° 15' W.
	196							
	197	55	10	White; square; wood....	37	C.....	1856	
	198							
	199	40	7	White; square; wood....	26	C.....	1856	
	200							

ST. LAWRENCE RIVER—Continued.

Number.	Name.	Location.	Latitude.		Longitude.		Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N.	W.	W.	W.			
201	GANANOQUE NARROWS.	N.E. end of Little Slave Island, S. side of channel, 5 miles below Gananoque.					1	F.	
202									
203	JACK-STRAW SHOAL.	On a pier, N. side of channel, 5 miles below Gananoque.					1	F.	
204									
205	SPECTACLE SHOAL.	On a pier, N. side of channel, 2 miles W. of Gananoque.	44 16 0		76 22 30		1	F.	
206									
207	RED HORSE ROCK.	On a pier, S.E. side of channel, $\frac{1}{4}$ a mile W. of No. 203.					1	F.	
208									
209	BURNT ISLAND.	S.E. point of island, N. side of channel, $\frac{1}{4}$ of a mile from No. 203.					1	F.	
210									
211	WOLFE ISLAND.	N.E. entrance point of island, 18 miles S.E. of Kingston.	44 14 0		76 10 —		1	F.	
212									

LAKE ONTARIO.

213	KINGSTON.	S.E. part of town.	44 13 30		76 29 0		1	F.	
214									
215	SNAKE ISLAND.	On pier on bar, N. side of channel, 5 miles W. of Kingston.	44 11 30		76 32 —		1	F. red.	
216									
217	GAGE, or SIMCOE.	S.W. point of island, Yeo Point, 9 miles W. of Kingston.	44 9 0		76 33 0		1	F.	
218	PIGEON ISLAND.	Near the center of the island.	44 4 5		76 32 30		1	Rev.	Every minute and 10 seconds.

ST. LAWRENCE RIVER—Continued.

Interval of revolution or dash.	Number.	Height of light above sea level.	Distance visible, in nautical miles.	Character of light-house or vessel.	Height, in feet, of building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
	501	44	7	White; square; wood ...	37	C.....	1856	
	502							
	503	31	6	White; square; wood ..	29	C.....	1856	
	504							
	505	28	9	White; square; wood ...	26	C.....	1856	
	506							
	507	28	8	White; square; wood ...	26	C.....	1856	These small lights are for the purpose of marking out the channel through the Thousand Islands, between Brockville and Kingston. Var'n in 1870, 7° 15' W.
	508							
	509	64	10	White; square; wood ...	26	C.....	1856	
	510							
	511			White; square; wood		C.....	1856	
	512							

LAKE ONTARIO.

	213		4	Square; wood; white.....			1844	Not lighted. Latitude of court-house at Kingston, 44° 14' N.; long. 76° 26' 38" W. Var'n in 1870, 7° W.
	214							
	215	35	6	Stone; square.....	35		1858	
	216							
	217	45	15	Round; stone.....	40		1833	
ry minute and seconds.	218	46	12	Tower on keeper's dwelling; white.	41	C.....	1871	

LAKE ONTARIO—Continued.

Number.	Name.	Location.	Latitude.	Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N. ° ' "	W. ° ' "			
219	FALSE DUCKS.....	E. point of island.....	43 57 0	76 48 30	1	F.	
220							
221	POINT PLEASANT.....	Entrance of Bay Quinte.....	44 5 0	76 51 0	1	F.	
222	TELEGRAPH ISLAND.....	Bay of Quinte.....	44 10 20	77 9 45	1	F.	
223	PETER POINT.....	On point.....	43 51 0	77 8 0	1	Rev.	One minute and 40 seconds.
224	SALMON or WICKED POINT	About 6 miles westward of Peter Point.	43 52 0	77 19 45	1	F. red.	
225	SCOTCH BONNET, or EGG ISLAND.	On small island, 1 mile S.W. of Nicholson's Island.	43 54 0	77 33 0	1	F.	
226							
227	PRESQUE ISLE.....	E. point.....	44 1 0	77 41 0	1	F.	
228							
229		On a hill in shore.....	44 0 0	77 42 0	2	W. S.W. and E. N.E. nearly.	
230							
231	FOX ISLAND.....	On Fox Island, Lake Simcoe..	44 18 0	77 28 0	1	F.	
232							
233	COBURG.....	Pier head.....	43 57 0	78 9 0	1	F.	
234							
235	PETER ROCK, or GULL ISLAND.	W. by S., 4 miles from Coburg.	43 56 30	78 13 0	1	F.	
236							
237	HOPE PORT.....	Pier head, E. side.....	43 56 15	78 15 0	1	F.	
238							
239	DARLINGTON.....	Pier head.....	43 52 30	78 37 45	1	F.	
240							

LAKE ONTARIO—Continued.

Number.	Height of light above sea level.	Distance visible, in nautical miles.	Character of light-house or vessel.	Height, in feet, of building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
219 220	68	22	Round; stone.....	62		1828	
221	....	10	.....			
222	46	12	.....	41	C.....	1870	Seen when approaching it from the E. or W.
223	62	21	Round; stone.....	60		1833	Var'n in 1870, 6° W.
224	40	10	Square white tower, on keeper's dwelling.		C.....	1871	Visible from all points of approach.
225	51	12	Stone.....	54	C.....	1856	
226							
227 228	67	18	Octagonal; stone.....	63		1840	
229		3	.....			1851	
230							
231 232	46	12	Square wooden tower, painted brown.	39	C.....	1870	Can be seen on approaching it from the N.E., E., and S.W.
233 234	20	8	Square; wood; white....	16		1844	
235	45	10	Octagon; stone.....	48		1840	Two miles off shore.
236							
237 238	4		.....				{ RED, facing S. BRIGHT, facing E. and W.
239 240	4		On a stone house.....				Var'n in 1870, 3° W.

LAKE ONTARIO—Continued.

Number.	Name.	Location.	Latitude.		Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N.	W.				
241	OSHAWA FORT	Pier head	43 53 0	78 47 0	1	.....	F.	.....
242								
243	WHITBY HARBOR	W. pier	43 51 0	78 56 —	1	.....	F.	.....
44								
245	PICKERING, or LIVER- FOOL	E. pier head	43 48 45	79 2 0	1	.....	F.	.....
246								
247	TORONTO	Gibraltar Point, S.W. side of point, 1½ miles S. of Toronto.	43 37 0	79 23 30	1	.....	F.	.....
248								
249		Queen's Wharf, western part; the other on arm of pier.	43 38 10	79 23 45	2	.....	F.	.....
250								
251	CREDIT FORT	On pier	43 33 30	79 35 0	1	.....	F.	.....
252								
253	OAKVILLE	Pier head	43 26 45	79 40 30	1	.....	F.	.....
254								
255	BURLINGTON BAY	S. pier of entrance	43 18 0	79 48 30	2	.....		.....
256								
257	DALHOUSIE HARBOR	E. pier head	43 13 30	79 15 30	1	.....	Rev.	.....
258								

LAKE ERIE.

259	COLBORNE PORT and RANGE LIGHT.	W. pier head	42 53 30	79 17 0	2	.....		.....
260								

LAKE ONTARIO—Continued.

Interval of revolution or flash.	Number.	Height of light above sea level.	Distance variable, in mar- tial miles.	Character of light-house or vessel.	Height, in feet, of build- ing from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
	241						1863	
	242							
	243	12	5	Square; wood	8		1844	
	244							
	245						1863	
	246							
	247	66	18	Hexagonal; stone	62		1890	
	248							
	249	22	6	Wood; square; red	16		1838	RED light is on the arm of the pier. To be passed closely on port hand. Var'n in 1870, 3° W.
	250							
	251						1863	
	252							
	253	42	12	Wood; octagon	36		1836	
	254							
	255	{ 60 18	{ 15 4	{ One white; one red; square; octagon.	{ 54 14	{ {	{ 1838 1845	{ High light, RED.
	256							
	257	53	10	Wood	44		1852	Entrance to Welland Canal.
	258							

LAKE ERIE.

	259	{ 58 14	{ 12 8	{ Wood	{ 54 10	{ {	{ 1852	{ Entrance to Welland Canal.
	260							

LAKE ERIE—Continued.

Number.	Name.	Location.	Latitude.	Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N. ° ' "	W. ° ' "			
261	MOHAWK ISLAND	On an island between Colborne and Maitland Ports, 1 mile S.W. of main land.	42 50 40	79 34 —	1	Rev.	Every 3 minutes.
262							
263	MAITLAND PORT	W. pier	42 52 0	79 37 0	1	F.	
264							
265	DOVER PORT	W. pier	42 47 30	80 13 0	1	F.	
266							
267	LONG POINT, or NORTH FORELAND.	E. extremity	42 33 24	80 5 30	1	F.	
268							
269	BIG OTTER CREEK, or BURWELL PORT.	333 yards in shore	42 39 0	80 49 30	1	F.	
270							
271	CATFISH CREEK, or BRUCE PORT.	.....	42 40 0	81 1 0	1	F.	
272							
273	STANLEY PORT	Extremity of W. pier	42 40 0	81 12 30	1	F.	
274							
275	PELÉE ISLAND	N.E. point	41 50 0	82 37 45	1	F.	
276							
277	PELÉE SPIT	On caisson, 2½ miles southerly from extreme end of point from N. shore.	41 52 20	82 29 45	1	F.	
278							

DETROIT RIVER.

279	AMHERSTBURGH	Bois Blanc Island, S. point....	42 5 0	83 6 36	1	F.	
280							

LAKE ERIE—Continued.

Number.	Height of light above sea level.	Distance visible, in nautical miles.	Character of light-house or vessel.	Height, in feet, of building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
261	64	10	Round; stone.....	60		1848	Var'n in 1870, 2° 40' W.
262							
263		10	Square; wood; white.....			1848	Grand River entrance.
264							
265	20	8	Square; wood; white....	20		1846	
266							
267	65	25	Octagon; wood.....	60		1843	Var'n in 1870, 1° 40' W.
268							
269	96	12	Octagon; wood.....	46		1840	
270							
271							
272							
273	20	4	Lantern.....	20		1844	
274							
275	45	9	Round; stone.....	40		1833	W. by N. clears Pelee Shoal. Var'n in 1870, 0° 45' E.
276							
277	76			61		1861	
278							

DETROIT RIVER.

279	56	18	Round; stone.....	40		1837	
280							

Interval of revolution or flash.

Every 3 minutes.

LAKE ST. CLAIR.

Number.	Name.	Location.	Latitude.	Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N. ° ' "	W. ° ' "			
281	THAMES RIVER	Mouth of river, S. shore.....	42 18 0	82 25 —	2	S. 26° E., and N. 90° W., 450 yards apart.	F.
282							

LAKE HURON.

283	GODERICH	On high bank, S. of entrance to harbor. Two on N. pier.	43 44 33	81 41 —	3		F.
284							
285	CLARK POINT.....	N. shore, about 20 miles N.E. from Goderich.	44 4 10	81 43 42	1		Fl. Every ½ minute.
286							
287	CHANTRY ISLAND.....	S. side, about 2½ miles W. from Sauguen.	44 29 40	81 23 20	1		F.
288							
289	GEORGIAN BAY.	Isle of Coves	N. E. point of island, entrance to Georgian Bay.	45 19 40	81 44 —	1	Rev. Every 2½ minutes
290							
291		Griffith Island	N. E. end of island, 20 miles from Owen Sound.	44 51 —	80 53 —	1	F.
292							
293		Nottawasaga Island.	About 4 miles N. W. from Collingwood.	44 32 30	80 15 —	1	Rev.
294							
295		Collingwood.....	Breakwater Pier.....	44 31 0	80 12 35	1	F. red.
296							
297		Christian Island	S. E. part of island, 1½ miles from main land.	44 47 —	80 8 —	1	F.
298							

LAKE ST. CLAIR.

Number.	Height of light above sea level.	Distance visible, in statute miles.	Character of light-house or vessel.	Height in feet, of building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
291	34 15	12 6	Square; wood Stone; round tower.	30 15		1837 1845	The two lights in one lens over the bar.
292							

LAKE HURON.

293	150	25	Square tower	20		1847	Var'n in 1870, 0° 50' W.
294							
295	87	15		87	D., 2d ord.	1850	
296							
297	86	15		86	D., 2d ord.	1850	
298							
299	90	15		85	D., 2d ord.	1850	Var'n in 1870, 0° 50' W.
300							
301	130	12		85	D., 3d ord.	1850	
302							
303	86	10		85	D., 2d ord.	1850	
304							
305	24	6				1858	Var'n in 1870, 0° 30' W.
306							
307	61	8		60	D., 4th or .	1850	
308							

LAKE HURON—Continued.

Number.	Name.	Location.	Latitude.	Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N. " "	W. " "			
299	Mink Island	Entrance to Parry Sound Harbor.	45 22 0	80 12 45	1	F.	
300							
301	Lonely Island		45 33 30	81 28 —	1	F.	
302	GEORGIAN BAY—Continued.						
303		Red Rock	1 mile E. of Killarney, on Red Rock Point.	45 57 —	81 26 —	2	F.
304							
305		Partridge Island	1½ miles N.W. from Red Rock Light.	45 58 —	81 29 —	2	F.
306							
307		Range Lights	Shaftsbury, or Little Current.	45 58 —	81 54 —	2	F.
308							
309		Clapperton Island ...	N. point	46 3 —	82 19 —	3	F.
310							
311	SULPHUR ISLAND	S.E. side of island	46 9 —	83 36 —			
312							

LAKE SUPERIOR.

313	ST. IGNACE	3 miles from St. Ignace Island.	48 42 —	88 10 —	3	F.	
314							

NEW BRUNSWICK.

315	MISCOU ISLAND	Birch Point	48 1 0	64 29 25	1	F. red.	
316							

LAKE HURON—Continued.

Interval of revolution or flash.	Number.	Height of light above sea level.	Distance visible in nau- tical miles.	Character of light-house or vessel.	Height in feet, of build- ing from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
	299	56	16	Square wooden tower, painted white, on keep- er's dwelling-house.	40	C.	1870	Visible from all points of approach.
	300							
	301	195	20	Square tower, on white dwelling.	42	C.	1870	
	302							
	303	80	10		20	C., 3d ord.	1866	At N. side of channel leading into Killarney Harbor.
	304							
	305	30	5		20	C., 3d ord.	1866	
	306							
	307	{ 24 }	6			C., 3d ord.	1866	
	308	{ 22 }						
	309	35	8			C., 3d ord.	1866	
	310							
	311							
	312							

LAKE SUPERIOR.

	313		8			C., 3d ord.	1866	
	314							

NEW BRUNSWICK.

	315	79	12	Wood; white; octagon...	74	.....	1856	
	316							

NEW BRUNSWICK—Continued.

Number.	Name.	Location.	Latitude.	Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
317	CARAQUET ISLAND	W. end of island	N. 47 49 40	W. 64 53 0	1	F.	
318							
319	BATHURST HARBOR	Carron Point, east side of entrance.	47 39 0	65 36 40	2 356 feet apart.	F.	
320	CHALEUR BAY	Carleton Point	48 5 17	66 7 0	1	F. red.	
321	CHALEUR BAY	Bonami or Arsinenu Point	48 3 45	66 30 50	1	F.	
322							
323	CHALEUR BAY	Paspobine Point	48 0 54	65 14 17	1	F.	
324							
325	PORTAGE ISLAND	S. part of island					
326							
327	PORTAGE BEACH						
328							
329	MIRAMICHI BAY	Escumene Point	47 4 32	64 47 33	1	F.	
330	MIRAMICHI BAY	Huckleberry			2	F.	
		Oak Point			2		
		Malcolm Point			1		
331	FOX ISLAND	N.W. Point	47 8 —	65 2 0	2	F.	
332							
333	RICHBUCKT	On head	46 39 40	64 42 30	1	F.	
334	CASSIES POINT	Northumberland Strait	46 19 5	64 30 20	1	Rev.	Rev. every 2 minutes, showing light every alternate half min.
335	SHEPIAC	Chene wharf	46 14 28	64 31 32	1	F.	
336							
337	JOURLAIN ISLAND	Extremity of cliff	46 10 —	63 50 —	1	F.	
338							

NEW BRUNSWICK—Continued.

Interval of revolution or flash.	Number.	Height of light above sea level.	Distance visible, in nauti- cal miles.	Character of light-house or vessel.	Height, in feet, of build- ing from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
	317	52	14	White; wood.....	46	C.....	1870	Attached to keeper's dwelling.
	318							
	319	{ 27 31 }	10	Buildings hexagonal and white.			1871	These beacons, kept in range, lead into the harbor. The outer exhibits a bright, the inner a red light.
	320	32	12	Square wooden tower, painted white.	28	C.....	1872	
	321	49	13	Square wooden tower, painted white.	33	C.....	1870	Seen from all points of approach.
	322							
	323	55	13	Square; white; wood....	40	C.....	1870	
	324							
	325							Building.
	326							
	327							Building.
	328							
	329	70	14	Wood; white.....	58		1841	Var'n in 1870, 23° 10' W.
	330						1871	
	331							Building.
	332							
	333	70	14	White; wood; square tower.	50	D, 4th ord.	1864	
	334	40	14	Wood; square; white...	27	C.....	1872	To guide vessels into Shediac Harbor.
	335	15	6	Lantern on a pole.....			1860	Lighted during the summer season.
	336							
	337	72	14	Octagonal; white.....	40		1870	White dwelling 50 feet westward of light-house.
	338							

Number.	Name.	Location.	Latitude.		Longitude.		Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N. °	" "	W. °	" "			
339 340	NORTH POINT.....	On point.....	47	3 46	63	59 19	1	F.	
341 342	CASCUMPEQUE, N. side ..	Sandy Island	46	48 32	64	2 15	1	F.	
343 344	RICHMOND HARBOR.....	Bill Hook, or Fishery Island, N. side entrance.	46	34 44	63	42 29	1	F.	
345 346	EAST POINT.....	200 yards in shore from S. part of point.	46	27 9	61	58 15	1	F.	
347 348	CARDIGAN BAY.....	Pannure Head, Georgetown Harbor, S. entrance.	46	8 47	62	27 40	1	F.	
349 350	GEORGETOWN.....	St. Andrew Point.....	46	9 57	62	30 15	1	F.	
351 352	HILLSBOROUGH BAY	Prim Point, 100 yards from the point, S.E. part of bay.	46	3 10	63	3 40	1	F.	
353 354	CHARLOTTE TOWN HAR- BOR.	Blockhouse Point, W. side of entrance.	46	13 55	63	7 28	1	F.	
355 356 357	{ BEDEQUE BAY {	{ Salutation, or Seacow Head. ... Green's Wharf	46	19 0	63	48 30	1	F.	
358			46	23 32	63	47 5	1	F.	
359 360	PUGWASH HARBOR.....	Seaman's Point, E. side of entrance.	45	52 30	63	40 30	1	F.	

PRINCE EDWARD ISLAND.

Interval of revolution or flash.	Number.	Height of light above sea level.	Distance visible, in nau- tical miles.	Character of light-house or vessel.	Height, in feet, of build- ing from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
	330	80	14				1856	
	340							
	341	82	8	Octagon tower; wood; white.		C	1856	Lighted during 8 months of the year. Var'n in 1870, 23° 40' W.
	342							
	343	20	8	Tower.			1856	Lighted during 8 months of the year.
	344							
	345	130	18	Wood; octagon; white.	60		1867	
	346							
	347	89	14	Wood; octagon; white.	49	C	1853	Lighted during 8 months of the year. The light should be kept open of Terras Point to clear reef off Bear Cape. In 1867 partially hidden by fir trees.
	348							
	349	36	8	Red and white, striped vertical.	20	Lantern, with coal-oil.	1868	
	350							
	351	68	13	Brick; white; circular.	50	C	1845	Lighted during 8 months of the year. Several buoys mark the dangers in the bay.
	352							
	353	35	16	On roof of block-house; white.			1856	Var'n in 1870, 22° 44' W.
	354							
	355	80	14				1864	
	356							
	357	15	7	Lantern on a pole			1856	
	358							
	359	48	8	Square; wood; white.	44	C	1871	Showing RED seaward, and BRIGHT toward the harbor.
	360							

NOVA SCOTIA.

Number.	Name.	Location.	Latitude.		Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N.	"				
361	AMET ISLAND	Center of island, Northumberland Strait.	45	50 15	63 10 0	1	F.	
362								
363	CARIBOU ISLAND.....	N.E. part.....	45	46 —	62 40 —	1	Rev.	Every minute...
364								
365	PICTOU HARBOR.....	S. point of entrance.....	45	41 25	62 30 26	2	Vertical: upper white, lower red.	F.
366								
367	PICTOU ISLAND.....	S.E. point	45	49 10	62 30 29	1	F.	
368								
369	CAPE ST. GEORGE.....	N. side of cape	45	52 35	61 55 —	1	Rev.	Every $\frac{1}{2}$ minute...
370								
371	POMQUET, ST. GEORGE BAY.	N.E. end of island	45	39 —	61 44 —	1	F. red.	
372								
373	N. ENTRANCE CANOE GUT.	W. side, 120 yards in shore...	45	41 42	61 28 58	1	F.	
374								
375	SHIP HARBOR, CANOE GUT.	Point Tupper.....	45	36 —	61 22 —	1	F. red.	
376								
377	Port Hood	S. entrance of harbor	46	0 0	61 31 40	1	F.	
378								
379	Sea Wolf or Margaree Island.	Summit or middle of island ..	46	21 30	61 15 33	1	F.	
380	Cheticamp Island...	S.W. end of island.....	46	36 32	61 3 0	1	Rev.	Revolves once in $1\frac{1}{2}$ minutes, and shows a flash every 45 sec'ds.
381	Ingonish Island		46	41 20	60 20 0	1	F.	
382								

NOVA SCOTIA.

Interval of revolution or flash.	Number.	Height of light above sea level.	Distance visible, in nau- tical miles.	Character of light-house or vessel.	Height, in feet, of build- ing from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
	361	44	12	Square; wood; white...	32	C.....	1866	Visible round horizon.
	362							
very minute...	363	35	12	White; square.....	26		1868	
	364							
	365	65	11	Octagon; wood; striped red and white vertic- ally.	55		1834	Lighted when the navigation is free from ice. A small RED light is seen below lantern, kept W. S.W. clears the E. reefs off Pictou Island. Var'n in 1870, 22° 40' W.
	366							
	367	52	12	Square; white.....			1853	
	368							
very 1/4 minute...	369	350	25	Square; white.....	39	D., 2d ord.	1861	
	370							
	371	50	10	White; square.....	23		1868	Visible between the bearings of W. (round by N.) and S. Var'n in 1870, 23° 40' W.
	372							
	373	110	18	Wood; square; white...	35		1842	There is good anchorage under the light with the wind off shore.
	374							
	375	44		Square; white tower....	24		1870	117 feet from extremity of point. Visible from N. entrance of Gut of Canoe, and from south about 3 miles.
	376							
	377	54	10	Square; white tower.....			1854	RED light on N. side. BRIGHT light on S. side.
	378							
	379	258	21	Square; white tower.....			1854	To vessels in dangerous proximity to the island the light may become obscured by the abrupt cliffs on the sides of the island.
evolves once in 10 minutes, and throws a flash every 45 sec'ds.	380	149	20	Wood; square; painted white, with black ball on seaward side.	24	C.....	1872	
	381	237	15	Square; white wooden tower.	40	D., 3d ord.	1871	
	382							

NOVA SCOTIA—Continued.

Interval of revolution or flash.	Number.	Height of light above sea level.	Distance visible, in nauti- cal miles.	Character of light, house or vessel.	Height, in feet, of build- ing from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
Every minute....	383	77	14	.....	.....	.....	1863	Alternate RED and BRIGHT flashes.
	384							
	385	45	10	White; square.....	23	.....	
	386							
	387	24	8	White.....	30	C.....	1871	Two lamps: one facing S.W., the other N.E. To show entrance to Narrows.
	388	36½	10	Wood; square; painted white.	20	C.....	1872	
	389	70	14	Octagon; red and white, vertical.	51	.....	1832	Var'n in 1870, 25° 55' W.
	390							
Every 15 seconds	391	.....	2	Octagonal; white.....	43	.....	1856	Visible round circle.
	392							
Visible a minute, eclipsed half a minute.	393	90	15	Octagonal; white.....	70	.....	1839	The light should never be brought to bear to eastward of N. N.E., or to southward of S. S.W., nor approached nearer than 1½ miles. A gun is here for signals, also a boat to render assistance.
	394							
	395	90	9	Square; white wooden tower.	40	C.....	1871	Situated at Main-a-dien.
	396							
	397	85	16	White, with a black vertical stripe.	35	.....	1842	On keeper's dwelling. Var'n in 1870, 25° 10' W.
	398							
	399	25 each.	8	Wood; square; white, with a black diamond.	.....	.....	1851	
	400							
	401	30	8	Wood; square; white ...	20	.....	1846	Var'n in 1870, 25° 25' W.
	402							

NOVA SCOTIA—Continued.

Number.	Name.	Location.	Latitude.		Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N.	W.				
403	GREEN ISLAND	Summit of island	45 28 51	60 53 40	1		F. red.	
404	WEST ARCHAT HARBOR	N. end of Jerseyman's Island.	45 30 20	61 3 4	1		F. red.	
405	ARCHAT HARBOR	Marache Point, S. entrance Madame Island.	45 29 2	61 1 52	1		F.	
406	CANSO HARBOR	N.E. part of Hart's Island	45 21 0	60 58 31	1		F. red.	
407	CAPE CANSO	N. part of Cranberry Island...	45 19 49	60 55 29	2	In one tower, vertical; 12 yards apart.	F.	
408								
409	WHITE HEAD ISLAND ...	S.W. extremity	45 11 58	61 8 2	1		Rev.	Every 20 seconds
410	LISCOMB ISLAND	On Cranberry Point	44 59 20	61 57 51	1		Rev.	Showing alternate flashes of red and white every 2 minutes.
411	BEAVER ISLANDS	S.E. part of E. Beaver, or William Island.	44 49 34	62 20 13	1		Rev.	Every 2 minutes
412								
413	EGG ISLAND	Center of island	44 30 51	62 51 32	1		Rev.	Every minute....
414								
415		Devil Island, S.W. part, E. entrance to harbor.	44 34 48	63 27 27	1		F.	
416	HALIFAX							
417		Sherbrooke Tower, Manger Beach, E. side of entrance.	44 36 6	63 31 55	1		F.	
418	CHEBUCTO HEAD	W. side of entrance to Halifax Harbor.	44 30 21	63 30 49	1		Rev.	Revolves once in 2 minutes, and shows a flash every minute.
419	SAMBRO	Center of island	44 26 11	63 33 42	1		F.	
420								

NOVA SCOTIA—Continued.

Interval of revolution or flash.	Number.	Height of light above sea level.	Distance visible, in nauti- cal miles.	Character of light-house or vessel.	Height in feet, of build- ing from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
	403	70	14	Wood; square; white....	31		1865	Center of keeper's dwelling. Visible round horizon.
	404	30	11	Wood; square; painted white.	28	C.....	1872	
	405	34	8	Wood; square; white....			1851	
	406	42	12	Wood; square; painted white.	28	C.....	1872	
	407	{ 75 40	{ 15 9}	Wood; octagon; striped red and white horizon- tally.	60		1815	A steam fog-whistle is situated 100 yards S. of light-house. Each blast will be 8 seconds' duration, with intervals of 52 seconds. Var'n in 1870, 23° 30' W.
	408							
Every 20 seconds	409	55	11	White; pyramidal; octag- onal lantern.	35		1854	Light not totally obscured during the eclipses. 10 seconds' duration flash and 10 seconds' eclipse.
Showing alternate flashes of red and white every 2 minutes.	410	64	15	Wood; square; painted white; roof of dwelling red.	28	C.....	1872	
Every 2 minutes	411	70	12	White, with two black balls seaward, S. S. W.	35		1846	On house.
	412							
Every minute....	413	85	14	Wood; octagonal; black and white vertical stripes on seaward side.	53		1865	Alternately BRIGHT and RED faces. Visible round horizon.
	414							
	415	45	8	Octagonal; dull red, with white belt.			1852	BRIGHT RED to seaward. Pilots are stationed here.
	416							
	417	58	12	White; circular; roof red.	48		1815	When Sambro Light bears W. S. W., this light should not be brought to the westward of N., which clears the Thrum Cap Shoal. Var'n in 1870, 20° 25' W.
Revolves once in 2 minutes, and shows a flash every minute.	418	132	18	Wood; square; painted white.	25 1/2	C.....	1872	
	419	115	20	Octagon; white	60		1758	If a vessel fires a gun during a fog it will be answered by two from the island, and the same reply will be made to the sound of a steamer's whistle. Pilots resort here.
	420							

NOVA SCOTIA—Continued.

Number.	Name.	Location.	Latitude.		Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N.	W.				
421	PEGGY'S POINT.....	E. side of entrance to St. Margaret's Bay.	44 29 30	63 54 —	1		F. red.	
422								
423	CHESTER or MADONE B'T.	East Ironbound Island, S.E. part, 200 feet from the cliff.	44 30 22	64 4 50	1		F.	
424	MAHONE BAY.....	On Hobson's Nose.....	44 24 56	64 13 46	1		F. red.	
425	MALAGUACHE or LUNenburg Bay.	Cross Island, E. point.....	44 18 43	64 9 57	2	Vertical, 11 yards apart.	Upper F. Lower F.	Bright 45 seconds, eclipsed 15 seconds.
426								
427		Battery Point.....	44 21 41	64 17 36	1		F.	
428								
429	MONNER.....	On island, S.E. part, W. side of entrance to Le Have River.	44 14 —	64 19 —	1		F. red.	
430								
431	WEST IRONBOUND ISLAND, S. side.	Mouth of Le Have River....	44 13 43	64 16 19	1		Rev.	Every 30 seconds
432								
433	METWAY FORT.....	Metway Head, W. side of entrance.	44 6 10	64 32 4	1		F.	
434								
435	LIVERPOOL BAY.....	Coffin Island, N. point.....	44 1 58	64 37 34	1		Rev.	Bright 40 seconds, eclipsed 80 seconds.
436								
437		Fort Point, S. entrance.....	44 1 —	64 42 —	1		F. red.	
438								
439	LITTLE HOPE.....	Nearly on center of islet.....	43 48 31	64 47 15	1		Rev. red.	
440	PORT EBERT HARBOR.	On Shingle Beach, E. side of harbor.	43 48 40	64 55 24	1		F. red.	

NOVA SCOTIA Continued.

Interval of revolution or flash.	Number.	Height of light above sea level.	Distance visible, in nautical miles.	Character of light-house or vessel.	Height, in feet, of building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
	421	65	14	White; square	26		1868	
	422							
	423	150	16	White; wood	46	C.	1866	Visible from all points of approach. Rebuilt.
	424	68	11	Square; wood; painted white.	23	C.	1872	
Bright 45 seconds, eclipsed 15 sec- onds.	425	100 { 65	14 { 8	Red; octagonal base.....	23		1832	Pilots resort here; and vessels might take refuge in case of necessity. Var'n in 1870, 19° 55' W.
	426							
	427		12	Square; white.....		C.	1864	On top of dwelling-house, which is white.
	428							
	429	55	12	Square; w	26		1868	
	430							
Every 30 seconds	431	72	13	Square tower; white.....	29		1855	Near the edge of a cliff 40 feet high.
	432							
	433	44	10	Square; white; with black square seaward.			1851	Like a dwelling-house.
	434							
Bright 40 seconds, eclipsed 80 sec- onds.	435	72	16	Octagon base; horizontal stripes, red and white, eight in number.	66		1812	Var'n in 1870, 18° 55' W.
	436							
	437	30	5	Square; white.....	17		1855	Left on port side when entering harbor.
	438							
	439	40	12	Square; white.....	31		1865	Center of keeper's dwelling; visible round horizon.
	440	31	10	Square; wood; painted white.	29	C.	1872	

NOVA SUOTIA—Continued.

Number.	Name.	Location.	Latitude.		Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N. ° ' "	W. ° ' "				
441	RUGGED ISLAND HARBOR	Gull Rock	43 39 14	65 6 —	1	.....	F.	.....
442	RUGGED ISLAND HARBOR	On Carter's Island	43 42 15	65 5 39	1	.....	F. red.	.....
443	SHELBURNE HARBOR.....	Cape Roseway, near S.E. extreme of Macnutt Island.	43 37 17	65 15 45	2	Vertical, 18 yards apart.	F.	.....
444	NEGRO HARBOR	On Negro Island.....	43 30 54	65 26 58	1	.....	Rev.	Alternate red and white flashes every minute.
445	LATOUR PORT.....	Baccaro Point, W. side of entrance.	43 26 54	65 28 12	1	.....	F. red.	.....
446								
447	SABLE CAVE	On cape	43 23 19	65 37 11	1	.....	Rev.	Bright 15 seconds, eclipsed 25 seconds.
448								
449	TUSKET RIVER.....	Big Fish Island, S.W. point..	43 42 3	65 57 15	2	Horizontal, 8 yards apart.	F.	.....
450								
451	PURNICO HARBOR.....	Beach Point, E. side of entrance, 60 fathoms from low-water mark.	43 35 45	65 46 54	1	.....	F.	.....
452								
453	BAY OF FUNDY.	Seal Island	S. point, an eighth of a mile inland.	43 23 24	66 0 52	1	F.	.....
454								
455		Yarmouth, or Cape Fourchu.	E. cape, S. point.....	43 47 28	66 9 21	1	Rev.	Every minute and 45 seconds, dark 30 seconds.
456								
457		Cape St. Mary.....	E. side of bay	44 5 —	66 12 30	1	Rev.	Every 30 seconds.
458								

NOVA SCOTIA—Continued.

Interval of revolution or flash.	Number.	Height of light above sea level.	Distance visible, in nautical miles.	Character of light-house or vessel.	Height in feet of building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
	441	44	10	Square; white	39	.....	1853	
	442	66	11	Square; wood; painted white.	29	C.	1872	
	443	130 { 65	18 10	Octagonal; vertical stripes, black and white.	77	.....	1788 Repaired 1858	Var'n in 1870, 16° 5' W.
Alternate red and white flashes every minute.	444	48	12	Square; wood; painted white.	29	C.	1872	
	445	49	12	Square; white, with black ball seaward.	35	.....	1850	
	446							
Bright 15 seconds, eclipsed 35 seconds.	447	53	12	White; conical	50	D.	1861	Var'n in 1870, 17° 25' W.
	448							
	449		12	Wood; white		C.	1864	Visible seaward. Each end of a dwelling-house white.
	450							
	451	28	8	Square; white	27	.....	1854	Open westward of St. John's Island; bearing N.E. by N. clears the ledge. Making harbor from any other direction, the light must be brought to the northward of E. N.E. before it can be steered for, to avoid shoal spot off C. St. Ann Point.
	452							
	453	98	18	Octagon; white	79	.....	1830	The Blonde Rock lies S. by W. 3½ miles from light-house. A steam-whistle is sounded, during fogs and snow-storms, in blasts of 3 seconds' duration, with intervals of 5 seconds and 45 seconds, alternately. May be heard from 5 to 25 miles, according to weather. Var'n in 1870, 16° 40' W.
	454							
Every minute and 45 seconds, dark 30 seconds.	455	117	20	Octagon; vertical stripes, red and white.	59	.....	1839	Fog-whistle on W. side sounded in fogs or snow-storms 10 seconds in every minute, with an interval of 50 seconds. May be heard from 5 to 7 miles, according to wind and weather. Cannot be at all times rolled on.
	456							
Every 30 seconds.	457	100	13	Octagonal; white	46	.....	1868	RED and BRIGHT.
	458							

NOVA SCOTIA—Continued.

Number.	Name.	Location.	Latitude.		Longitude.		Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N. ° ' "	" "	W. ° ' "	" "			
459	Bryer Island	N.W. point	44	14 57	66	23 33	1	F.	
460									
461	Peter Island	S. entrance to Grand Passage.	44	15 30	66	20 20	2	Horizontal...	F.
462									
463	Petit Passage. N. entrance.	Bear's Head, 50 feet from edge of cliff.	44	24 16	66	13 0	1	Rev.	Alternate red and white flashes every minute.
464									
465	Sissiboo River.....	Near Weymouth.....	44	26 30	66	1 15	1	F.	
466									
467	Digby, or Annapolis	Prim Point, S. point of entrance	44	41 34	65	47 8	1	F.	
468	Southwestern Wolf Island.	Southeastern point of island ..	44	56 30	66	44 10	1	Rev.	An interval of 1½ minutes between each flash.
469	Marshall Cove, or Port Williams.		44	56 52	65	16 1	2	F.	
470	Bliss Island	W. point of island	45	1 45	66	51 0	1	F. red.	
471	Margaretville		45	2 57	65	4 0	2	F.	
472									
473	Black Rock Point.	S. shore	45	10 10	64	46 0	1	F.	
474									
475	Horton	On bluff	45	6 15	64	13 10	1	F.	
476									
477	Burn Coat Head ...	Basin of mines	45	18 17	63	48 30	1	F.	
478									

BAY OF FUND.—Continued.

NOVA SCOTIA—Continued.

Number.	Height of light above sea level.	Distance visible, in nautical miles.	Character of light-house or vessel.	Height, in feet, of building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
459 460	72	13	Octagonal; white.....	55	.....	1809	Var'n in 1870, 17° 45' W.
461 462	40 each.	10	Square; white.....	.....	.....	1850	Visible from the northward between the bearings of S. by W. and S. S.W., and from the southward between the bearings of N.E. by E. and N. N.W. $\frac{1}{4}$ W.
463	.....	.....	.....	.....	.....	1864	On the top of a dwelling-house, which is white. Visible from E. by S. to S.W. by W.
464 466	40	8	Square, pyramidal; painted white.	33	C.....	1870	Visible from all points of approach.
467	76	13	Square; vertical stripes..	22	.....	1817	Var'n in 1870, 18° 45' W. During thick weather, fogs, and snow-storms, a steam fog-whistle will be sounded 8 seconds in each minute, thus making an interval of 52 seconds between each blast. The whistle has been heard at the following distances: In calm weather, over 15 miles; with the wind, about 20 miles; stormy weather and against the wind, 6 miles.
468	111	17 to 20	Square wooden building, painted white.	35	C.....	1871	Visible from all points of approach.
469	60 57	5	Square; white.....	22	.....	1859	Visible between the bearings of W. S.W. and E. N.E. (round by N.) At the distance of about 5 miles it will show a BRIGHT light, and on a nearer approach GREEN.
470	45	12	Square wooden tower, painted white.	30	C.....	1871	Visible from all points of approach seaward.
471 472	30 27	5	Square; white.....	22	.....	1859	Visible between the bearings of W. S.W. and E. N.E. (round by N.) At the distance of about 5 miles it will show a BRIGHT light, and on a nearer approach RED.
473 474	45	12	Square; white.....	35	.....	1848	.....
475 476	92	20	Square; white.....	20	.....	1851	Var'n in 1870, 20° 40' W.
477 478	75	13	Square; white.....	50	.....	1859	On keeper's dwelling. Visible from all points of approach.

Interval of revolution
or flash.Alternate red and
white flashes
every minute.Interval of 1½
minutes between
each flash.

NOVA SCOTIA—Continued.

Number.	Name.	Location.	Latitude.	Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N. " "	W. " "			
479	Cobequid Bay.....	Spencer Point, N. shore	45 23 —	64 19 0	1	F.	
480							
481	Partridge Island or Parsborough.	W. side of river	45 23 —	64 19 0	1	F.	
482							
483	Apple River, Chig- necto Bay.	Cape Capstan or Hetty Point, N. entrance.	45 28 —	64 51 30	1	F.	
484							

NEW BRUNSWICK.

485	BAY OF FUNDY.	Grindstone.....	W. part of island.....	45 43 13	64 37 25	1		F.	
486									
487		Enragé.....	Pitch of cape.....	45 35 31	61 46 55	1		F.	
488									
489		Quaco.....	Small rock off head.....	45 19 20	65 31 55	1		Rev.	Every 20 seconds.
490									
491			{	Partridge Island.....	45 14 —	66 3 5	1		F.
492	St. John's Harbor.								
493		{	Beacon Tower, S. extreme of spit.	45 15 3	66 3 5	1		F.	
494									
495		Lepreau.....	On point.....	45 3 31	66 27 39	2	Vertical, 9 yards apart.	F.	
496									

NOVA SCOTIA—Continued.

Interval of revolution or flash.	Number.	Height of light above sea level.	Distance visible, in nau- tical miles.	Character of light-house or vessel.	Height, in feet, of build- ing from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
	479			Window in a building.			1863	
	480							
	481	37	9	Octagon; white	32		1852	
	482							
	483		12	Tower; white	24			
	484							

NEW BRUNSWICK.

	485	60	12	Wood; octagonal; white			1850	Visible from N.E. by E. (round by N.) to E. by S., or 315° Cape Enrage Light-house S.W. by W. $\frac{1}{2}$ W. about 10 miles. Var'n in 1870, 21° 10' W.
	486							
	487	120	15	Square; white	23		1840	Visible between the bearings of N.W. and N.E. (round by S.)
	488							
Every 20 seconds.	489	58	15	Octagon; horizontal bands, red and white.	46		1835	
	490							
	491	119	20	Octagon; vertical stripes, red and white.	40		1791	In foggy weather a steam-whistle is sounded every minute for 10 seconds. A bell buoy is established near the E. side of Partridge Reef.
	492							
	493	35	12	Octagon; vertical stripes, red and white.	15	D.	1838 relighted 1808	Leading light for the spit. Var'n in 1870, 19° 25' W.
	494							
	495	{ 81 53 }	15	Octagon; striped horizon- tally, red and white.	31		1831	Visible from southward between the bearings of W. N.W. and E. by N. A steam-whistle is sounded, during fogs and snow-storms, in blasts of 5 seconds' duration, with intervals of 5 seconds and 45 seconds, alternately. May be heard from 3 to 20 miles, according to the weather. Var'n in 1869, 18° 10' W.
	496							

NEW BRUNSWICK—Continued.

Number.	Name.	Location.	Latitude.	Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N. " "	W. " "			
497	Campobella Island	N. point of Head Harbor	44 57 40	66 53 55	1	F.	
498							
499	Port St. Andrew	N. point of entrance	45 4 10	67 3 0	1	F.	
500							
501	Grand Munon Island, N.E. part.	Swallow's Tail	44 45 52	66 44 4	1	F.	
502							
503	Machias Islands	Eastern light	44 30 7	67 6 13	2 W. by N. $\frac{1}{2}$ N., and E. by S. $\frac{1}{2}$ S., 57 yds apart.	F.	
504							
505	Gannet Rock	On the rock	44 30 38	66 47 1	1	F. & Fl.	Every minute.
506							

BAY OF FUNDY—Continued.

BERMUDA ISLANDS.

507	BERMUDA ISLAND	Gibb's Hill	32 15 4	64 51 36	1	Rev.	Every 54 seconds.
508							

BAHAMIA ISLANDS.

509	GUN CAY (E.)	Near S. point	25 34 30	79 18 7	1	Rev.	Every minute and a half.
510							

NEW BRUNSWICK—Continued.

Interval of revolution or flash.	Number.	Height of light above sea level.	Distance visible, in nautical miles.	Character of light-house or vessel.	Height, in feet, of building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
	497	64	15	Octagon; white, with red cross.	34		1829	Var'n in 1870, 18° W.
	498							
	499	42	10	Octagon; white.	22		1833	Visible between the bearings of N.W. by N. and S.E. by S.
	500							
	501	148	17	Octagon; wood; white.	50	C.	1860	Visible between the bearings of S.W. and N.W. (round by S.) Var'n in 1870, 17° 30' W.
	502							
	503	E. 58 (W. 54)	15	{ White; octagon { White	{ 58 { 38	D., 3d ord. {	{ 1870 { 1832	{ A gun is fired every four hours during a fog. Vessels standing to the northward should haul off the moment the lights are in one to avoid the Murr Ledges.
	504							
Every minute....	505	66	12	Octagon; striped vertically, black and white alternately.	41	D., 4th ord.	1831	A gun is fired to answer signals during a fog. Dangerous rocks extend 4 miles eastward of the light-house. Fixed light..... 45 seconds. Eclipse..... 5½ " Flash..... 4 " Eclipse..... 5½ " 60
	506							

BERMUDA ISLANDS.

Every 54 seconds.	507	362	24	Circular; iron; white.	106		1846	Visible from all directions except between the bearings of S. 48° W. and S. 52° W., also S. 53½° W. to S. 62° W., being interrupted by high land. Var'n in 1870, 7° 16' W.
	508							

BAHAMIA ISLANDS.

Every minute and a half.	509	80	12	Conical tower; upper part red, lower white; lantern white.	70	C., 2d ord.	1836	Seen except when it bears between S. by W. ¼ W. and S. ¾ E., being intercepted by the Beemini Isles when 8 miles distant. Var'n in 1870, 4° 10' E. An indifferent light.
	510							

BAHAMA ISLANDS—Continued.

Number.	Name.	Location.	Latitude.	Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N. " "	W. " "			
	GREAT ISAAC (E.)	On the island	26 2 0	79 5 47	1	Rev.	Every ½ minute.
512							
513	GREAT STIRRUP CAY (E.)	600 yards from E. end of caye	25 49 40	77 53 12	1	F.	
514							
515	NASSAU HARBOR (E.)	W. point Hog Island	25 5 37	77 21 39	1	F.	
516							
517	ATHOL ISLAND (Nassau)	On cupola of quarantine officers' house.	25 5 0	77 16 42	1	F.	
518							
519	ABACO (E.)	S.E. point, or Hole in Wall...	25 51 30	77 10 28	1	Rev.	Every minute....
520							
521		Little Guana, or Elbow Cay, ½ of a mile inland.	26 36 0	76 54 —	1	F.	
522							
523	CROOKED ISLAND PASS- AGE (E.)	Bird Island	22 51 0	74 22 0	1		
524							
525		Castle Island, 270 yards within S.W. part.	22 6 40	74 20 —	1	F.	
526							
	GREAT INAGUA ISLAND (E.)	S.W. point	20 56 —	73 40 —	1	Rev.	Every minute....
528							

BAHAMAS ISLANDS—Continued.

Interval of revolution or flash.	Number.	Height of light above sea level.	Distance visible, in nau- tical miles.	Character of light-house or vessel.	Height, in feet, of build- ing from base to vase.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
Every 1/2 minute...	511	138	16	Iron, with broad red bands, 8 in number; and white, 7 in number, horizontal bands; lantern white.	145	C., 1st ord.	1859	Shows a fixed light, for a distance of 6 miles, between the flashes.
	512							
	513	81	12	Circular; 5 bands, red and white alternately.	46	D., 3d ord.	1863	Visible between the bearings of N.W. by N. and N.E., or 280°.
	514							
	515	68	10	Conical stone tower; white.	58	C., 1st ord.	1816	Visible between the bearings of N.E. and N.W. through N. Var'n in 1870, 32° 30' E. The regulation is still in force which requires the exhibition at night of a red light at Hog Island Light-house whenever the state of the bar at the entrance to Nassau is such as to be considered impassable or dangerous to vessels entering the harbor.
	516							
	517	50	9	On cupola of house.				Visible only between N. N.W. 1/2 W. and W. 1/2 N.
	518							
Every minute....	519	160	16	Conical stone tower; white lower part and red upper part; lantern white.	85	C., 1st ord.	1836	Visible between the bearings of S.W. and E. S.E. through E.
	520							
	521	123	14	Circular; stone	77	D., 1st ord.	1863	Illuminates 220° of the horizon.
	522							
	523							Proposed.
	524							
	525	123	17	Conical; 3 bands of red brick.	114	D., 2d ord.	1868	Illuminates 330°.
	526							
Every minute....	527	120	17	Conical, stone tower; whitish.	114	D., 2d ord.		Visible about 1 mile southward of Mathew Town over the land. Var'n in 1870, 3- E.
	528							

BAHAMA ISLANDS—Continued.

Interval of revolution or flash.	Number.	Height of light above sea level.	Distance visible, in nauti- cal miles.	Character of light-house or vessel.	Height, in feet, of build- ing from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
A flash every half minute.	529	108	15	White; iron; circular....	60	C.....	1845	Var'n in 1870, 2° 25' E.
	530							
	531	146	16	Circular, iron; broad red bands, 7 in number, and white, 6 in number; lantern white.	150	D., 1st ord.	1860	Visible round horizon.
	532							
	533		8	.....		D., 4th ord.	.....	Proposed.
	534							
	535	96	8	Stone, conical tower; white and red upper part.	58	.....	1830	Visible round horizon, except when it bears S.W. & W., being intercepted by water cay when 3 leagues distant. Var'n in 1870, 4° 25' E.
	536							

GREAT ANTILLES.

Half a minute ..	537	117	20	.....	167	D., 2d ord.	1863	"Roncall" thereon. Var'n in 1870, 6° E.
	538							
	539					D., 2d ord.	.....	Proposed.
	540							
	541	110	15	.....		D., 3d ord.	.....	Proposed. Var'n in 1870, 5° 38' E.
	542							
A flash every half minute.	543	170	21	Stone culver	70	D., 1st ord.	1845	"O'Donnell" thereon. The light is extinguished for ten min- utes after midnight to clean and trim the lamp. Var'n in 1870, 5° 30' E.
	544							
	545							
	546							
Every minute ..	547	93		.....		D., 3d ord.	.....	Proposed.
	548							

GREAT ANTILLES—Continued.

Number	Name.	Location.	Latitude.		Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution of flash.
			N.	W.				
549	Cienfuegos Bay (Spa.)	Piedras Cay, Los Pinzones....	23 14 04	81 6 32	1		F. & Fl.	A red flash every half minute.
550								
551		Cay Diana.....	23 9 56	81 6 16	1		F.	
552								
553	Cayo Cruz del Padre (Spa.)	On reef, $\frac{1}{2}$ of a mile N.E. of cay.	23 17 —	80 53 29	1		F.	
554								
555	Bahia de Cardiz (Spa.)	N.E. part of cay	23 12 34	80 58 35	1		F. & Fl.	Every minute....
556	Sagua la Grande....	Rancheria Point.....	23 5 2	80 4 0	1		F.	
557	Paredon Cay Grande (Spa.)	N. part of cay	22 29 3	78 9 10	1		F. & Fl.	A flash every minute.
558	Nuevititas Harbor (Spa.)	Barlovento or Pilots' Point, E. entrance.	21 37 30	77 4 33	1		F.	
559								
560		Maternillos Point.....	21 40 6	77 8 14	1		Rev.	Every minute....
561								
562								
563	Lucrecia (Spa.)	On point	21 4 38	75 37 11	1		Rev. red.	Every minute....
564								
565	Baracoa (Spa.).....	Entrance of port	20 21 40	74 29 37	1		F.	
566								
567	Cape Mayari (Spa.) ...	On cape, E. point of island ...	20 15 10	74 9 41	1		F.	
568								

CUBA, North Coast—Continued.

GREAT ANTILLES—Continued.

Interval of revolution of flash.	Number.	Height of light above sea level.	Distance visible, in nautical miles.	Character of light-house or vessel.	Height, in feet, of building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
A red flash every half minute.	549	74	15	Tower on house; white.	67	D., 4th ord.	1857	
	550							
	551	43	7	Iron column			1862	Var'n in 1870, 4° 53' E.
	552							
	553	49	10	Conical; white.	40	D., 4th ord.	1862	
	554							
Every minute.	555	175	24	Iron; white.	159	D., 1st ord.	1862	
	556	57	8	Red pole	46	D.	1872	The pole is in the center of the keeper's dwelling, which is of brick. Visible between S.W. $\frac{1}{4}$ W., round by N., to S.E. $\frac{1}{4}$ E.
A flash every minute.	557	159 { Fl. 20 P. 14		Iron; brown; base stone.	127	D., 1st ord.	1859	Var'n in 1870, 4° 10' E.
	558							
	559	49	9	On white mast from center of building.	44	D., 6th ord.	1854	Keeper's dwelling is quadrangular; yellow.
	560							
Every minute.	561	173	23	White.	170	D., 1st ord.	1856	"Colon" thereon. Duration of eclipse, 16 seconds.
	562							
Every minute.	563	130	17	Stone; white.		D., 2d ord.	1868	Var'n in 1870, 3° 40' E.
	564							
	565	48	12	Iron column		D., 4th ord.	1870	To facilitate entrance by night. Column attached to keeper's dwelling.
	566							
	567	128	17	Tower circular; base octagonal.		D., 2d ord.	1862	
	568							

GREAT ANTILLES—Continued.

Number.	Name.	Location.	Latitude.		Longitude.		Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N.	W.	N.	W.			
569	St. Jago de Cuba (Spa.)	100 yards E. of the Morro Castle.	19 57 42	75 53 37	1		Rev.	Every 2 minutes	
570									
571	Cruz (Spa.)	On cape.	19 48 24	77 44 40	1		F.	A red flash every 3 minutes.	
572									
573	Jagua, Xagua, or Cienfuegos Harbor (Spa.)	Colorada Point, E. point of entrance.	22 1 0	80 30 30	1		F. & Fl.		
574									
575	Cochinos Bay (Spa.)	Cay Piedras, N. part.	21 58 0	81 4 47	1		F.		
576									
577	Butabano (Spa.)		22 41 25	82 18 21	1		F.		
578									
579	Pepe, Isle of Pines (Spa.)	On cape	21 26 —	83 6 —	1		Rev.		
580									
581		Morant Point	17 56 0	76 11 40	1		Rev.	Every minute	
582									
583		Plana Point, 66 yards northward of point.	17 55 45	76 47 0	1		F.		
584	JAMAICA ISLAND (E.).								
585		Fort Augusta	17 58 —	76 51 0	1		F.		
586									

GREAT ANTILLES—Continued.

Number.	Height of light above sea level.	Distance visible, in nautical miles.	Character of light-house or vessel.	Height, in feet, of building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
569	220	15	White; iron.....	20	D., 4th ord.	1861	Var'n in 1870, 4° 6' E.
570							
571	115	18	Stone tower on focal plane.		C., 2d ord.	1871	Vessels passing the light from E. to W. or from W. to E. should keep well off until passed, to avoid the reef.
572							
573	81	14	.....	45	D., 3d ord.	1851	"Villa Nueva" thereon. Var'n in 1870, 5° 18' E.
574							
575	30	7	Brown	26	D., 4th ord.	1863	Over keeper's dwelling.
576							
577	31	3	Lantern on mast			1854	
578							
579		16	.....		D., 3d ord.	.....	Proposed. Var'n in 1870, 5° 40' E.
580							
581	115	15	White iron tower	96	.....	1842	Var'n in 1870, 4° 50' E.
582							
583	68	12	White.....			1854	RED when seen between the bearings of N.W. by W. $\frac{1}{4}$ W. and N. $\frac{1}{4}$ E. BRIGHT from N. $\frac{1}{4}$ E. to S.E. (round by E.)
584							
585	40		Single lamp suspended from the beacon.				BRIGHT and RED light. The BRIGHT light visible to the S. and W., and the RED to the eastward. Bearing N. by E. leads through the S. channel. Var'n in 1870, 4° 50' E.
586							

GREAT ANTILLES—Continued.

Number.	Name.	Location.	Latitude.		Longitude.		Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N.	W.	° ' "	° ' "			
587	Samaná Bay.....	Balandra Head	19 11 48	69 13 42	1	.....	F.	.....
588									
589	Santo Domingo.....	San José Fort	18 28 5	69 52 30	1	.....	F.	.....
590									
591	Jamel.....	Summit of White Cliff.....	18 12 0	72 74 0	1	.....	F. red.	.....
592									
593	Cayes Bay	Vache Isle, on E. extremity..	18 4 30	73 34 30	1	.....	F. red.	.....
594									
595	Port au Prince, Haiti.	Between Laumentin and Tor Points.	18 33 30	72 24 30	1	.....	F.	.....
596									
597		75 fathoms westward of Fort Idet.			1	.....	F.	.....
598									
599	PUERTO RICO ISLAND (Spa.)	Fort San Juan, on Morro.....	18 29 0	66 6 55	1	.....	Rev.	Every 2 minutes

VIRGIN AND CARIBBEE ISLANDS.

601	ST. THOMAS.....	E. entrance, on Møhlenfels Point.	18 19 22	64 55 8	1	.....	F.	.....
602								
603	SANTA CRUZ, or ST. CROIX (Da.)	Frederichstad Fort.....	17 42 40	64 52 40	1	.....	F.	.....
604								
605		Christianstad Fort	17 45 25	64 41 30	1	.....	F.	.....
606								

GREAT ANTILLES—Continued.

Number.	Height of light above sea level.	Distance visible, in nautical miles.	Character of light-house or vessel.	Height, in feet, of building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
587	234	6	On a mast	16	1863	<i>Discontinued.</i>	Var'n in 1870, 2° 25' E.
588							
589	113	9	Cupola, white	100	1853		
590							
591		12			1866	Indicates the position of the bay at night.	
592							
593		12			1866	Intended to indicate the position of the bay at night.	
594							
595	80	9			1864	<i>Discontinued.</i>	
596							
597		10			1866		
598							
599	171	15		D., 3d ord.	1846	Only 8 seconds bright; eclipse 112 seconds. Var'n 1° 40' E.	
600							

VIRGIN AND CARIBBEE ISLANDS.

601	115	12	White	1872	Visible from E. by S. through S. to W.
602					
603		4		1857	Var'n in 1870, 1° 30' E.
604					
605				1855	
606					

VIRGIN AND CARIBBEE ISLANDS—Continued.

No.	Name.	Location.	Latitude. N. W.	Longitude. 0° °	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
607	SOMBREIRO ISLAND (E.)..	On S.E. side of island, and one-third length of island from S. point.	18 35 40	63 27 46	1	Rev.	Every minute.
608							
609	ST. CHRISTOPHER ISLAND (E.)	On beach at Basse Terre	17 18 0	62 42 50	1	F. red.	.....
610							
611	MONSERRAT ISLAND (E.)	On beach at Plymouth	16 42 12	62 16 0	2	F.	.....
612							
613	ANTIGUA ISLAND (E.) ...	English Harbor, Barclay Point.	17 0 0	61 45 18	3 Triangular; on a staff, 3 yds. apart.	F.	.....
614							
615		Petite Terre, 202 yards from eastern part.	16 10 29	61 5 7	1	F	.....
616							
617		Gozier Islet	16 14 7	61 26 —	1	F.	.....
618							
619		S. of town of Pointe à Pitre ..	16 15 —	61 29 30	1	F.	.....
620	GUADALUPE ISLAND (Fr.)						
621		Mouron Islet			* 1	F.	.....
622							
623		Moule de Port	16 21 —	61 18 —	1	F.	.....
624							
625		Basse Terre, on Mole	16 0 15	61 44 —	2	F. red.	.....
626							
627	MARIE-GALANTE ISLAND.		15 54 0	61 17 0	1	F.	.....
628							

VIRGIN AND CARIBBEE ISLANDS—Continued.

Interval of revolution or flash.	Number.	Height of light above sea level.	Distance visible, in nautical miles.	Character of light, color or vessel.	Height, in feet, of building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
Every minute....	607	150	20	Red, open iron frame-work.	132	D., 2d. ord.	1868	Var'n in 1870, 0° 40' E.
	608							
	609	37	12	Wooden frame	73		1846	N. by W. $\frac{1}{2}$ W. leads to the anchorage.
	610							
	611							For mail steamer, when expected. Var'n in 1870, 1° E.
	612							
	613	62	8		42		1843	Temporary. For mail steamer, when expected. The upper light RED. Var'n in 1870, 0° 30' E.
	614							
	615	108	15		75	D., 3d. ord.		The Balise Rock lies S, 10° W. $\frac{1}{2}$ a mile. Var'n in 1870, 1° E.
	616							
	617		7					
	618							
	619			Lantern				
	620							
	621			Lantern				
	622							
	623		7				1858	
	624							
	625		2				1865	Light at end of wharf also RED, but of less elevation.
	626							
	627		9				1867	
	628							

VIRGIN AND CARIBBEE ISLANDS—Continued.

Number.	Name.	Location.	Latitude.	Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N. ° ' "	W. ° ' "			
629	DOMINICA ISLAND (E.)...	Roseau Bay, extremity of mole.	15 17 26	61 29 5	1	F. red.	
630							
631		Pointe des Nègres, in the fort.	14 35 7	61 5 30	1	F.	
632							
633		Fort St. Louis, in S.W. part of fortress.	14 36 7	61 4 12	1	F.	
634							
635		St. Martin Point	14 44 3	61 10 45	1	F.	
636							
637	MAUTINIQUE ISLAND (Fr.)	Westward of former			1		
638							
639		Edge of the bank, St. Pierre Bay.			1	F.	
640							
641		Caravelle Peninsula, Carriacou Mountain one third of a mile inland.	11 46 15	60 52 51	1	F.	
642							
643		Tapien Battery, S. entrance of Castries Harbor.	14 1 30	61 0 4	1	F. red.	
644							
645		Vieille Ville Shoal			1	F. red.	
646	St. LUCIA ISLAND (E.)						
647		Coconut Shoal			1	F. red.	
648		On wharf.			1		

VIRGIN AND CARIBBEE ISLANDS—Continued.

Number.	Height of light above sea level.	Distance visible in nautical miles.	Character of light-house or vessel.	Height in feet of building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
629			On flag-staff			1867	When mail steamer is expected.
630							
631	62	11	Red mast	15		1855	
632							
633	131	6					RED light from W. N.W. to W. S.W. BRIGHT in other directions.
634							
635		5				1860	
636							
637		5				1860	ORANGE to the N., BLUE to the W., and GREEN to the S. The BRIGHT and BLUE lights in line lead to the anchorage.
638							
639		2				1860	Lighted on the day the mail is expected, and for three nights after, if not arrived.
640							
641	410	24	White tower		D., 1st ord.	1862	Var'n in 1° 70, 1° 15' E.
642							
643	80	3				1843	For mail steamer, when expected. Var'n in 1° 70, 1° 30' E.
644							
645			Red perch			1868	When mail steamers are expected.
646							
647			Perch			1868	Shown from the day the mail is due until it arrives.
648							

419

1

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668

VIRGIN AND CARIBBEE ISLANDS—Continued.

Interval of revolution or flash.	Number.	Height of light above sea level.	Distance visible, in nau- tical miles.	Character of light—beacon or vessel.	Height, in feet, of build- ing from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
	619	640	6				1838	For mail steamer, when expected.
	620							
	621					D., 1st ord.		<i>Proposed.</i>
	622							
	623	145	18	Alternate red and white bands.	90		1852	Does not show until it bears to the westward of S.W. by W., and to be kept well open in order to clear the Cobbler Reef, Var'n in 1870, 1° 5' E.
	624							
	625	34	Brk, 8 Red, 3				1850	RED to N. of E., and BRIGHT to S. of E.
	626							

MEXICO AND CENTRAL AMERICA.

	627	15					New 1865	
	628							
	629	80	15	White.....	60			Var'n in 1870, 8° 20' E.
	630	102	15	Tower, painted blue, with white stripes at the up- per part.		4th ord....	1872	
	631	126	12				1860 impr'd 1869	Var'n in 1870, 6° 43' E.
	632							
	633	100	14	Circular; white lantern; red and white upper part.		D., 2d ord.	1856	
	634							
	635	95	14				1861	
	636							
	637	60	10		50		1852	Var'n in 1870, 7° 35' E.
	638							

MEXICO AND CENTRAL AMERICA—Continued.

Number.	Name.		Latitude.	Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N. " "	W. " "			
669	TURNER CAYS (E)	Manger Cay, 14 miles within N. end of reef.	17 37 15	87 45 45	3	In a triangle	F.
670							
671	BELIZE (B)	English Cay, S. side of channel	17 19 30	88 3 54	2		F.
672							
673		Custom-house	17 29 20	88 11 53	1		F.
674							
675	BOREL CAY	On cny	17 8 50	87 56 24	2	Horizontal	F.
676							
677	HALF-MOON CAY (E.)	S.E. point	17 12 15	87 32 20	1		F.
678							
679	TRUXILLO	Cape Honduras, or Point Castilla.	16 1 —	86 3 15	1		F.
680							

NEW GRENADA, VENEZUELA, AND GUYANA.

681	ASPENWALL (N.G.)	N.W. part of Manzanillo Island	9 23 47	79 53 0	1		F.
682							
683	SANTA MARTA (N.G.)	Morro Island			1		F.
684	PORT SAVANILLA (N.G.)	Nisperal Point	11 0 0	75 1 50	1		F.
685	RIO DE LA HACHA (N.G.)	On church	11 3 0	72 55 —	1		F.
686							
687	MARYCABO, or Maricaybo	Zaparo Island	10 58 0	71 40 0	1		F.
688							

MEXICO AND CENTRAL AMERICA—Continued.

Number.	Height of light above sea level.	Distance visible in natural miles.	Character of light-house or vessel.	Height, in feet, of building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
669	25	13	Skeleton; iron; upper third black; remainder white.	57	D., 4th ord.	1846 New 1868	The bank extends 1½ miles to the N.E. of the light-house. The lights can be seen above the trees from all points of the compass, but the light-house is seen from seaward only from N.E. to S.W. by W.
670							
671	(95) (75)	3			D., 6th ord.	1846	Var'n in 1870, 7° E.
672							
673					D., 6th ord.	1863	Hoisted on flag-staff.
674							
675	53	6	Flag-staff, with a yard, on which the lights are displayed.	75	D.	1868	One bright, the other red.
676							
677	22	18	Iron tower; white.	About 100	C., 3d ord.	1821	Visible round horizon.
678							
679	30	11					Seventy yards from the shore. Var'n in 1870, 2½° E.

NEW GRENADA, VENEZUELA, AND GUYANA.

681	60	10	Wood; open white building	60	D., 5th ord.	1852	Var'n in 1870, 6° 45' E.
682							
683	328	24				1870	
684	58	10	White tower			1872	Temporary guide to the anchorage. Var'n in 1872, 4° 50' E.
685	69	6				1857	
686							
687	30	6	Stone tower				Building.
688							

NEW GRENADA, ETC.—Continued.

Number.	Name.	Location.	Latitude.		Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N.	W.				
680 681	GREAT CURAÇAO ISLAND (Du.)	St. Ann Harbor, Rif Fort	12 6 10	0 5 10	18 53 10	1	F.	
681 682		On E. side of island	11 28 0	0 8 38 0	18 53 10	1	F.	
683 684	BUEN AYRE (Du.)	Laere (N. point)	12 2 12	0 8 17 0	18 53 10	1	F.	
685 686		Brava Point	10 30 0	0 8 0 0	18 53 10	1	Rev.	RED and BRIGHT flashes every 40 seconds.
687 688	TRINIDAD (E.)	Port Espana, on jetty	10 38 40	61 31 0	18 53 10	1	F.	
689 690		Leves Point	10 3 30	61 55 40	18 53 10	1	F.	
691 692								
693 694								
695 696	TOBAGO (C.)	Scarborough, or Buccleut Point	11 10 0	60 42 —	18 53 10	1	F.	
697 698								
699 700								
701 702								
703 704	DEMERARA (E.)	On E. side of entrance	6 49 30	58 11 30	18 53 10	1	Rev.	Every minute.
705 706								
707 708								
709 710		Light-vessel, in 3 fathoms, N.E. $\frac{1}{2}$ N., about 10 miles from entrance of river.	6 57 15	58 6 50	18 53 10	1	F.	

NEW GRENADA, ETC.—Continued.

Number.	Height of light above sea level.	Distance visible, in nautical miles.	Character of light, house or vessel.	Height, in feet, of building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
689						1850	
690							
691	40	10			C, 3d ord.	1850	
692							
693	85	12	White, with vertical red stripes.	75	C, 3d ord.		
694							
695	79	14	Quadrangular			1861	Var'n in 1870, 3° 46' E.
696							
697							
698							
699	50	15	Hexagonal tower	43	D, 4th ord.	1841	Visible between the bearings of N.E. by N. and S.E. round by W. Var'n in 1870, 2° E.
700							
701	29	5					Lantern hoisted on a white spar. Va
702							
703	115	12	Pentagon tower; red and white.	46		1842	Visible between the bearings of E. N. by S. Var'n in 1870, 2° 18' E.
704							
705							
706							
707	103	16	Octagonal tower; red and white vertical.	100	D, 4th ord.	1829	Var'n in 1870, 2° E.
708							
709	30	10	Red, with one must about 60 feet high, and a blue flag by day.			1844	Pilot's for Demerara and Essequibo Rivers are on board. "DEMERARA" on her sides.
710							

Interval of revolution
or flash.Red and white
flashes every 40
seconds.

every minute....

NEW GRENADA, ETC.—Continued.

Number.	Name.	Location.	Latitude.		Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N. ° ' "	W. ° ' "				
711	BERNICE (E.)	Light-vessel, moored close to E. point of entrance.	6 29	—	57 24	1	F.	
712								
713	EURINAM (Du.)	Light-vessel, in 18 feet, off Bruma Point, N.W. $\frac{1}{2}$ N. 3 leagues.	6 2	—	55 15 0	1	F.	
714	MARONI RIVER, Dutch and French Guyana.	W. side of entrance	5 43 0	53 58 0	1	F.		
714½		E. side of entrance, Française Point.	5 42 30	53 56 20	1	F.		
715		Saint Islets, on W. end of Royale Island, on summit of hospital.	5 17 0	52 32 51	1	F.		
716								
717		Enfant Perdu, on a rock, 6 miles N. of Cayenne.	5 2 40	52 21 30	1	F.		
718								
719	CAYENNE (Fr.)	Angle of infantry barracks	4 56 49	52 20 —	1	F.		
720								
721		Cépéron Fort	4 56 29	52 20 0	1	F.		
722								
723		End of jetty			1	F. red.		
724								

BRAZIL.

Number.	Name.	Location.	S.		W.			
			° ' "	° ' "				
725	PARA (B.)	Light-vessel, 14 miles N. from Braganza Island, in 15 fathoms.	6 07	—	47 55 0	1	Rev.	Every 5 minutes; eclipsed every 5 seconds.
726								
727		Atalaia Point	0 35 3	47 30 26	1	Rev.	Every 2 minutes	
728								

NEW GRENADA, ETC.—Continued.

Interval of revolution or flash.	Number.	Height of light above sea level.	Distance visible, in nau- tical miles.	Character of light-house or vessel.	Height, in feet, of build- ing from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
	711	10		A ball on the foremast; roofed over, with a jigger-mast aft.			1850	The light bearing S. 8. W., in 4 fathoms, is the fairway into the harbor. A sloop pilot boat cruises outside the bar constantly, carrying a white flag with PILOT inscribed thereon.
	712							
	713	30	7	Red ball at mast-head.			1858	"SURINAM" on the vessel's sides. Var'n in 1870, 1° 30' E.
	714	75	12	Wooden tower.	70	D.	1871	[To enter the Maroni River by day, keep the outer buoy and the Dutch light-house on the W. side of entrance in a line, and, on reaching the inner buoy, steer for Point Panato. The Dutch light shows only over a sector of 90°; that is, 45° each side of S. 38° W.]
	714½	75	13	White wooden tower.		D.	1871	
	715	200	14			C.	1864	A rock of 12 feet lies 2,078 yards N. by W. ½ W. from light-house.
	716							
	717	61	9	Iron piles; quadrangular.		C.	1864	Var'n in 1870, 6° 26' W.
	718							
	719	49	8			C.	1850	GREEN light. These two lights in one lead over the <i>Avalanche</i> <i>Rock</i> , which is avoided by passing W. of this line.
	720							
	721	130	10	Wooden frame.	40	C.	1862	
	722							
	723	39				C.	1862	
	724							

BRAZIL.

Every 5 minutes; eclipsed every 5 seconds.	725	30		Iron; one mast.		C.	1868	Ships coming from the eastward should, as soon as the light- vessel bears W., steer for her, and, passing N., steer S. W. as soon as they have rounded her.
	726							
Every 2 minutes	727	17					1852	Var'n in 1870, 3° W.
	728							

BRAZIL.—Continued.

Number.	Name.	Location.	Latitude.	Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			° S. ' "	° W. ' "			
729	ITACOLOMI (B.)	On point	2 10 0	44 24 46	1	Rev.	Every 14 minutes for 46 seconds.
730							
731	ALCANTARA (B.)	On point	2 25 0	44 22 0	1	F.	
732							
733	SAN LUIZ, Maranhão (B.)	San Marcos Fort	2 29 16	44 16 54	1	F.	
734							
735	SANTA ANNA (B.)	E. part of island	2 16 30	43 35 21	1	Rev.	Every 32 seconds
736							
737	CEARA (B.)	Macripe Point	3 42 0	38 47 30	1	Rev.	
738							
739	GONZALO RIVER (B.)	Light-vessel, off entrance			1	F.	
740							
741	RIO GRANDE DO NORTE (B.)	Fortress of Santos Reis Magos.	5 45 5	35 11 21	1	F.	
742							
743	PERNAMBUCO (B.)	On reef, 50 yards from Pico Fort.	8 3 31	34 51 43	1	Rev.	Every minute
744							
745	MACEIO (B.)	A mile from anchorage, W. part of mountain.	9 39 30	35 44 36	1	F. & Fl.	A flash every 2 minutes.
746							
747	SAN FRANCISCO	N. point of river	10 27 0	36 21 30	1	F.	
748							

BRAZIL—Continued.

Interval of revolution or flash.	Number.	Height of light above sea level.	Distance visible in nau- tical miles.	Character of light-house or vessel.	Height in feet of build- ing from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
Every 14 minutes for 48 seconds.	729	147	15	Square	75	Re established 1868		BRIGHT and RED, alternately. Var'n in 1870, 4° 40' W.
	730							
	731						1860	A guide to the anchorage before Alcantara.
	732							
	733		11			D, 1st ord.	1829	
	734							
Every 32 seconds	735	70	14	Square; white.....	80		1861	
	736							
	737	85	19		50	, 4th ord.	1872	
	738							
	739	30					1868	
	740							
	741	43	12	Round tower.....		C, 3d ord.	1860	
	742							
Every minute.	743		15				1824	Twice BRIGHT and once a RED light in succession, showing a light every minute. Var'n in 1870, 10° W.
	744							
A flash every 2 minutes.	745	208	22				1856	Fixed light 70 seconds, eclipse 16 seconds, flash 12 seconds, eclipse 32 seconds.
	746							
	747	69	11				1867	Var'n in 1870, 8° 45' W
	748							

BRAZIL—Continued.

Number.	Name.	Location.	Latitude.		Longitude.		Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			S.	N.	W.	E.			
749	COTINDEIA BAR	Watch tower	10	59 30	37	2 30	1	F.	
750									
751	BAHIA OF SAN SALVADOR (B.)	Fort San Antonio	13	0 55	38	31 35	1	Rev.	Every 80 seconds
752									
753		Fort San Marcello	12	58 16	38	30 44	1	F. red.	
754									
755	MORRO DE SAN PAOLO (B.)	On Morro	15	22 35	38	54 14	1	Rev.	Every minute
756									
757	ABROLHOS ISLES (B.)	Santa Barbara Island, highest point.	17	57 42	38	41 30	1	Fl.	Every minute...
758	ESPIRITO SANTO BAY	On hill of Santa Luzia					1	F.	
759	FRIO CAPE ISLAND (B.)	Focinho do Cabo Point	23	0 42	41	59 36	1	Fl.	Every minute and a half.
760									
761	RAZA (B.)	On island	23	3 0	43	8 26	1	Rev.	Every 24 minutes
762									
763	RIO DE JANEIRO (B.)	Fort Santa Cruz, E. entrance	22	56 36	43	8 —	1	F.	
764									
765		Calhauense Point					1	F.	
766									
767	SANTOS (B.)	Mocha Island	24	3 6	46	15 3	1	F.	
768									
769	PARANAGÁ BAY	On summit of Morro das Conchas, on N.E. part of islet.	25	32 38	48	19 0	1	F.	
770	do Mel (B.)								

BRAZIL.—Continued.

Interval of revolution or flash	Number.	Height of light above sea level.	Distance visible, in nauti- cal miles.	Character of light-house or vessel.	Height, in feet, of build- ing from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
	749	115	6 to 9				1862	BRIGHT to S.E., RED eastward, GREEN southward. Vessels should anchor with RED light in sight in 4 fathoms; with BRIGHT or GREEN light in sight, do not go into less than 5 fathoms.
	750							
Every 80 seconds.	751	140	18				1823	Twice BRIGHT and once a RED light succeed each other, showing a light every 80 seconds.
	752							
	753						1864	
	754							
Every minute.	755	276	20	White.	60		1854	Eclipse not total within 8 miles.
	756							
Every minute.	757	189	17	Iron; circular.	51	D., 1st ord.	1861	Var'n in 1870, 52° 55' W.
	758	66	12	Tower		D., 4th ord.	1871	
Every minute and a half.	759	522	25	Circular; light stone color	53	C., 1st ord.	1861	Visible between S.W. and E., or 925°. Duration of the total eclipse is 45 seconds.
	760							
Every 2½ minutes	761	315-106 to 14		White; square	50		1828	BRIGHT and RED alternately.
	762							
	763		6				1833	Position of Port Villegagnon, lat. 23° 54' 42" S., long. 43° 9' 0" W. of Greenwich. Var'n in 1870, 22° 24' W.
	764							
	765			Lantern on a pole			1856	RED light exhibited occasionally when steamers are plying.
	766							
	767	38-1	21	White	40	D., 1st ord.	1831	
	768							
	769	282	20	Iron tower.	72		1872	
	770							

BRAZIL—Continued.

Number.	Name.	Location.	Latitude.	Longitude.	Number of lights and relative position.	Character of light.	Interval of revolution or flash.
			S. W.	° ' " ° ' "			
771	SANTA CATHARINA Is- LAND (B.)	Punta de Naufragados, S. point.	27 50 27	48 35 0	1	Rev.	Every minute
772							
773	RIO GRANDE DO SUL (B.)	N. point of entrance, 1.1 miles from extremity of point.	32 6 40	52 7 10	1	Rev.	Every 2 minutes
774							
775	Surengonen (B.)	On island	31 44 0	52 10 —	1		
776							
777	Matreiro (B.)	On point	31 48 30	51 50 —	1		
778							
779	Bojurú (B.)	On point	31 35 0	51 58 —	1	F.	
780							
781	Marcá (B.)	On cape			1	F.	
782							
783	Christó (B.)	Peyroira On point	31 26 0	51 23 —	1	F.	
784							
785	Barba Negra (B.)	On isle	30 57 0	51 15 —	1	F.	
786							

BUEÑOS AYRES, ETC.

786	RIO DE LA PLATA.	CAPE SANTA MARIA (Uruguay).	On cape	34 40 30	54 9 —	1	Rev.	Every minute.
787		Maldonado Bay (B.O.)	E. point	34 58 15	54 56 0	1	F.	
788								
789		Flores (B.O.)	On island	34 56 55	55 54 —	1	Rev.	Every 3 minutes
790								

BRAZIL—Continued.

Interval of revolution or flash.	Number.	Height of light above sea level.	Distance visible, in nauti- cal miles.	Character of light-house or vessel.	Height, in feet, of build- ing from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
Every minute....	771	149	18	Circular.....	C, Cd ord.	1861		
	772							
Every 2 minutes	773	96	14		C, Cd ord.	1833	Bright 70 seconds, eclipsed 30 seconds.	Var'n in 1870, 6° 30' E.
	774							
	775					1860		
	776							
	777					1860		
	778							
	779					1860		
	780							
	781					1860		
	782							
	783					1860		
	784							
	785					1860		
	786							

BUENOS AYRES, ETC.

Every minute....	786½	120	16	Octagonal tower.....	1st ord.	1872	Proposed.	
	787	152	20		90 D.....	1860	To be removed to its former position on Lobos Island.	Var'n in 1870, 8° 10' E.
	788							
Every 3 minutes	789	104	12	White.....	65	1833	Not to be depended on.	
	790							

BUENOS AYRES, ETC.—Continued.

Number.	Name.	Location.	Latitude.		Longitude.		Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			S.	N.	W.	E.			
791	English Bank (B.O.)	Light-vessel, in 7 fathoms; on tail, N. part of bank.	35	6 0	53	52 —	1	F.	
792									
793		Pañola Shoal	34	54 0	56	25 0	1	F.	
794		Light-vessel a cable's length N. N.W. $\frac{1}{4}$ W. of shoal.							
795	Monte Video (B.O.)	W. side of harbor, on mount.	34	53 3	56	15 13	1	F. & Fl.	A flash every 3 minutes for 15 seconds.
796									
797		End of breakwater, on San José Point.					1	F. red.	
798									
799	Point Indio Light-ship.	Cathedral, S. tower	34	54 20	56	12 58	1	F.	
800									
801		Light-vessel, in 3 $\frac{1}{2}$ fathoms, N.E. $\frac{1}{4}$ N., 8 miles from Indio Point.	35	11 —	57	3 —	1	F.	
802									
803	Chico Bank (B.O.)	Light-vessel, in 4 $\frac{1}{2}$ fathoms, N.E. $\frac{1}{4}$ N., from Point Atulaya 11 $\frac{1}{2}$ miles.	34	46 45	59	28 —	1	F.	
804									
805		Colonia (U.O.)	34	28 20	57	52 —	1	Rev.	Every 2 minutes.
806		S.W. angle of plaza							
807	Buenos Ayres, (B.A.)	In 2 $\frac{1}{2}$ fathoms, guard-ship outer roads.	34	34 30	58	18 —	1	F.	
808									
809		Custom-house tower					1	F.	
810									
811	MARTIN GARCIA		34	11 10	58	13 30		F. white.	

BUENOS AYRES, ETC.—Continued.

Number.	Height of light above sea level.	Distance visible, in nautical miles.	Character of light, square or vane.	Height, in feet, of building from base to vane.	Character and order of illuminating apparatus.	Year given.	Remarks.
791	9		Red, with 3 masts.			1837	Position not <i>always</i> to be depended on.
792							
793	17	5				1866	
794							
795	48	25	Brown	25	C, 1st ord.	1852	The flash of 15 seconds is preceded and followed by a short eclipse. Dial-plate of clock in the S. tower of cathedral lighted by gas, which enables vessels to anchor by cross-bearings by night.
796							
797	16					1870	
798							
799	147					1862	
800							
801	About 30	10	Two masts; a black ball at the foremast head.			1849	When pilots are on board, a RED and WHITE diagonal flag is hoisted. The vessel is frequently passed without being seen.
802							
803	About 20	10	Two masts			1857	After bad weather the position of this light is not to be depended on.
804							
805	110	10	Dull brick			1846	
806							
807	About 20	7	Three masts			1857	Var'n in 1870, 10° 20' E.
808							
809							
810							

BUENOS AYRES, ETC.—Continued.

Number.	Name.	Location.	Latitude.	Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
811	FALKLAND ISLANDS (E.).	Fembroke Cape.....	S. 51 40 40	W. 57 41 48	1	F.	
812							
813	MAGELLAN STRAIT.....	Sandy Point, blockhouse $\frac{1}{2}$ a mile from entrance to the river.	53 9 30	70 13 10	2	F.	
814							

WEST COAST OF SOUTH AMERICA.

815	CHILOE ISLAND (C.).....	N. part, San Carlos de Ancud, Huapiacuy, or Punta Corona.	41 46 45	73 53 —	1	F. & Fl.	A flash every 2 minutes.
816							
817	VALDIVIA (C.).....	Niebla Fort Point.....	39 52 10	73 24 50	1	F.	
818							
819	COQUIMBO BAY, S. part (C.)	Tortuga Point.....	29 56 53	71 21 10	1	Fl.	Every 15 seconds.
820							
821	QUIRIQUINA ISLAND, N. point.	Concepcion Bay, Talcahuano.	36 36 18	73 4 —	1	Rev.	Every $\frac{1}{2}$ minute.
822							
823	VALPARAISO (C.).....	Angeles or Playa Ancha Point.	33 1 10	71 39 —	1	F. & Fl.	A flash every minute.
824							
825	HUASCA (C.).....		28 28 0	71 19 0	1		
826							
827	CALDERA PORT (C.).....	On point.....	27 3 0	70 53 30	1	F. & Fl.	A flash every minute and a half.
828	MOHENDO HARBOR.....	On promontory.....	17 1 —	72 0 —	1	F.	

BUENOS AYRES, ETC.—Continued.

Interval of revolution or flash.	Number.	Height of light above sea level.	Distance visible, in nautical miles.	Character of light, house or vessel.	Height, in feet, of building from base to vane.	Direction and order of illuminating apparatus.	Year erected.	Remarks.
	110	14		Circular; iron; white and red bands.	60			Seen from seaward in every direction, and dark only between N.W. $\frac{1}{2}$ N. and S.W. $\frac{1}{2}$ W. Dark toward Ports William and Sanley (which are free ports). Var'n in 1870, $14^{\circ} 55'$ E.
	112							
	113	19					1867	Var'n in 1879, $91^{\circ} 50'$ E.
	114							

WEST COAST OF SOUTH AMERICA.

A flash every 2 minutes.	197	12		Circular; white; lantern green.	32	D., 4th ord.	1859	When the light bears S.E. by E., you may haul to southward.
	196							
	197	121	8	Square; wood; white....	24	D., 4th ord.	1866	
	198							
Every 15 seconds.	199	106	12	Square; white; cupola green.	25	D., 4th ord.	1868	To mark Punta Arenas anchorage, in 5 fathoms.
	200							
Every $\frac{1}{2}$ minute.	201	213	15	Circular; white; lantern and dome green.	36	D., 4th ord.	1869	Bright 9 seconds and eclipsed 21 seconds
	202							
Flash every minute.	203	197	20	Circular; white.....	61	D., 4th ord.	1858	The flash is preceded and followed by a short eclipse. In coming from the southward the light does not open off Curaumilla Point until it bears to eastward of N. N.E. $\frac{1}{2}$ E. Longitude of Fort Antonio, $71^{\circ} 38'$ W. Var'n in 1870, $16^{\circ} 20'$ E.
	204							
	205							Proposed.
	206							
Flash every minute and a half.	207	123	15	Square; wood; white; rail black; lantern green.	42	D., 4th ord.	1868	
	208	147	3	On flag-staff, 65 feet high.				



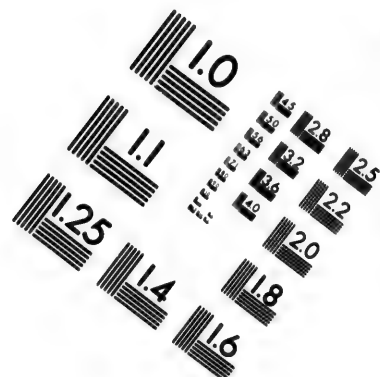
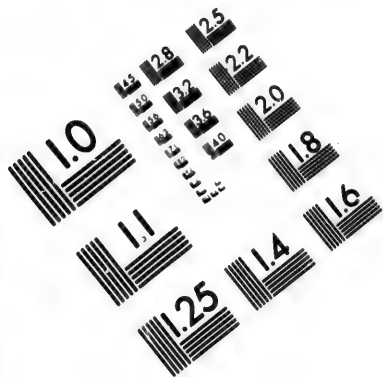
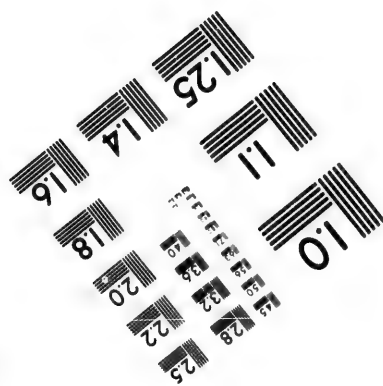
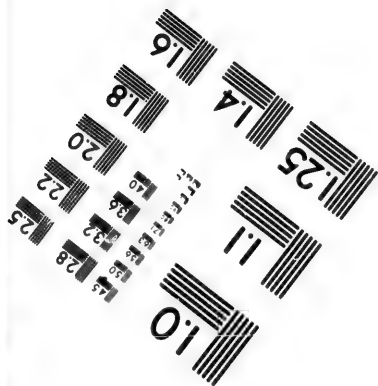
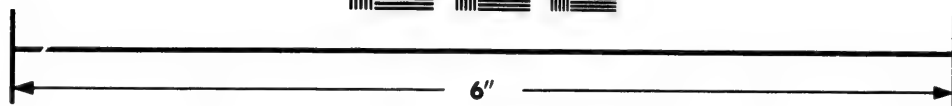
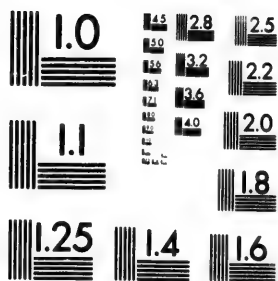


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WEST COAST OF SOUTH AMERICA—Continued.

Number.	Name.	Location.	Latitude.	Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			S. " " "	W. " " "			
829	CALLAO	Lorenzo Island. N. point	12 4 0	77 16 —	1	F.	
830							
831	GUAYAQUIL (P.)	Near center Santa Clara Island	3 10 0	80 35 —	1	F.	
832							
833	PANAMA	End of railroad wharf.	8 57 —	79 31 —	1	F. red.	
834							

CENTRAL AMERICA AND MEXICO, S.W. COAST.

835	NICOYA GULF.....	Punta Arenas.....	9 59 34	84 46 —	1	.....	F.	.....
835½	SAN JOSE DE ACAJUTLA .	Extreme of iron mole	13 37 0	89 45 0	1	.....	F.	.....
836	LA LIBERTAD	West angle of custom-house..	13 30 0	89 17 0	1	.....	F.	.....
837	ACAPULCO	Summit of Grifo or Roqueta Island.	16 49 —	99 52 0	1	.....	F.	.....
838								

BRITISH COLUMBIA.

[illegible]

WEST COAST OF SOUTH AMERICA—Continued.

Number.	Height of light above sea level.	Distance visible in nautical miles.	Character of light-house or vessel.	Height, in feet, of building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
229	260	12	Wood; octagonal form	60		1857	Not visible from N.W. $\frac{1}{2}$ N. to W. by N. $\frac{1}{2}$ N.; just open on latter bearing will lead through Boqueron Channel in $4\frac{1}{2}$ fathoms. Var'n in 1870, 11° E.
230							
231						1873	Var'n in 1870, $9^{\circ} 45'$ E.
232							
233						1870	
234							

CENTRAL AMERICA AND MEXICO, S.W. COAST.

235	65	9	White		D., 3d ord.	1856	
235		7 to 8				1873	
236		6 to 7				1872	
237	855	4 or 5				1858	For mail steamers only, when expected. Var'n in 1870, $8^{\circ} 25'$ E.
238							

BRITISH COLUMBIA.

239	118	18	Tower stone; with 5 alternate horizontal bands, black and white.		D., 3d ord.	1861	A fog-bell has been established at Race Island Light-house, Juan de Fuca Strait, which will be used as occasion may require. S.E. by E., 3 or 4 cables' length, is a reef, having 5 feet thereon.
240							
241	70	10	White; iron; lantern red	57	D., 4th ord.	1860	BRIGHT when bearing from N. $\frac{1}{2}$ W. to N.W. by W. $\frac{1}{2}$ W. RED from N.W. by W. $\frac{1}{2}$ W. to S. $\frac{1}{2}$ E., and eclipsed from S.E. $\frac{1}{2}$ E. landward to the BRIGHT limit. Var'n in 1870, $31^{\circ} 30'$ E.
242							
243	About 54	11	Red, with 2 masts; on the mainmast is a ball.		C., 6th ord.	1866	White name on her sides. Bell sounded in foggy weather. Var'n in 1870, 23° E.
244							

HAWAIIAN ISLANDS (or Sandwich Islands).

Number.	Name.	Location.	Latitude.	Longitude.	Number of lights and relative positions.	Character of light.	Interval of revolution or flash.
			N. ° ' "	W. ° ' "			
845	HAWAII ISLAND	Puukaa Point, Hilo Harbor...	19 45 0	155 5 0	1	F.	
846							
847		Kaunahae	20 1 0	155 43 0	1	F.	
848							
849	MAUI ISLAND	Lahaina Port (Lahinaluna) ...	20 52 0	156 25 0	1	F.	
850							
851	HONOLULU, Oahu Island.	inner edge of western reef; the other near the custom-house.	21 18 8	157 51 6	2	F.	
852							

SOCIETY ISLANDS.

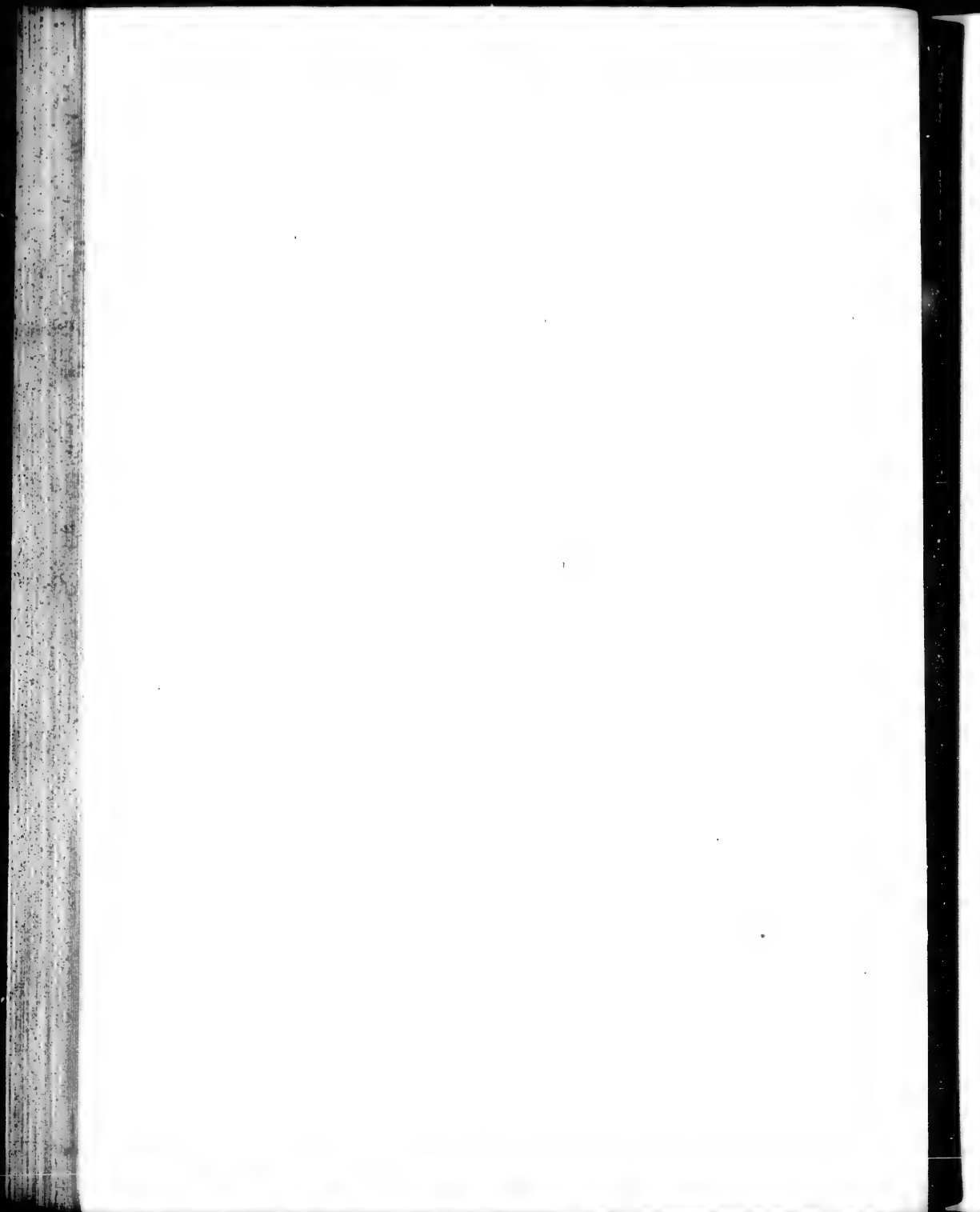
853	TAHITI, N. coast	Venus Point	S. 17 29 48	W. 149 29 21	1	F.	
854							
855	PORT PAPIETE				2	1,500 yards S. S.E.	F. red.
856		On E. end of a shoal, inside of harbor.			1		F. red.
857	LEVUKA HARBOR	Ovulan Island	S. 17 40 45	E. 178 49 0	2		
858							

HAWAIIAN ISLANDS (or Sandwich Islands).

Number.	Height of light above sea level.	Distance visible, in nautical miles.	Character of light-house or vessel.	Height, in feet, of building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks.
E45	50	10				1869	
E46							
E47	50	10				1869	With the light bearing E. N.E. is good anchorage about $\frac{1}{2}$ of a mile off shore.
E48							
E49		6				1868	Var'n in 1870, 9° 10' E.
E50							
E51	$\left. \begin{array}{l} 26 \\ 28 \end{array} \right\}$	$\left. \begin{array}{l} 9 \\ 5 \end{array} \right\}$			D., 4th ord.	$\left. \begin{array}{l} 1869 \\ 1869 \end{array} \right\}$	Visible between the bearings of E. and N.W. by W. round by N. GREEN light. To enter the harbor, bring the two lights in one.
E52							

SOCIETY ISLANDS.

E53	350	15	Square tower; white....	72	D., 3d ord.	1868	Visible between the bearings of E. by S. and S.W. by W. $\frac{1}{2}$ W. round by N. Var'n in 1870, 7° 51' E.
E54							
E55						1869	On beacons, which serve as a leading mark through the channel, one of which is on the corner of the Battery de l'Embuscade, and the other on the side of the hill beyond. Lights not to be depended on.
E56							To the right of the lights which serve as a leading mark, about $\frac{1}{2}$ of a mile W. N.W. from the first light.
E57		5	White beacons with red diamonds.			1871	The inner light is placed on a hill behind the town; the other a little to the S. of the Wesleyan Mission-house. The lights by night or beacons by day, kept in line, lead through the middle of S. entrance passage.
E58							



INDEX.

A.	No.
Abaco	521
Abrolhos Islands	757
Acapulco, San José de	833½
Acapulco	837
Alcantara	731
Amet Island	361
Amherst, Fort	17
Amherst Islands	49
Amherstburgh	279
Amour Point	3
Angeles Point	833
Anguila Cay	533
Annapolis, or Digby	467
Anticosti and Islands	63 to 67
Antigua Islands	613
Antilles, Great	537 to 600
Antonio, Fort San	751
Apple River	483
Arichat Harbor	405
Arichat Harbor, West	404
Arsineau Point	321
Aspinwall	681
Atalia Point	737
Atoll Island	517

B.	No.
Bacallieu Island	11
Baccaro Point	445
Bacoret Point	703
Bagots Bluff	63
Bahama Islands	509 to 536
Bahia de Cadiz	555
Bahia, or San Salvador	751 to 753
Balandry Head	587
Barnacoa	565
Barbados Island	651 to 655
Barba Negra	785
Barbura Island, Santa	757
Barclay Point	613
Barlovento Point	539
Basse Terre	625
Batabono	577
Bathurst Harbor	319
Batiscan	121
Bay of Quinte	221, 222
Beach Point	451
Beach, point of	387
Beauharnois	177
Beaver Islands	411
Bedeque Bay	355 to 357
Belize	671 to 673
Belle Chasse	101
Belle Isle	1
Berlice	711
Bermuda Island	507, 508
Bicquette Island	79
Big Bras d'Or	385
Big Fish Island	449
Big Otter Creek	269
Bill Hook Island	343

C.	No.
Birch Point	315
Bird Island	383
Bird Island	523
Black Rock Point	385
Bilas Island	470
Blockhouse Point	353
Boar's Head	463
Bois Blanc Island	279
Bojura	779
Bokel Cay	675
Bonami Point	391
Bonavista	7
Braganza Shoal	725
Brama Point	713
Brandy Pots	87
Brava Point	695
Brasil	725 to 785
British Columbia	839 to 841
Bruce Port	271
B'inet Island	41
Bryer Island	459
Buenos Ayres (City)	807 to 809
Buenos Ayres	787 to 813
Burin Island	33
Burlington Bay	255
Burnt Island	209
Burwell Port	269

C.	No.
Cabello, Puerto	695
Cadiz, Bahia de	555
Caldern Port	827
Calhabouco Point	765
Callao	829
Campeche	665
Campobello Island	497
Canon Point	37
Canso Cape	407
Canso Gut (N. entrance)	373
Canso Gut (ship harbor)	376
Canso Gut (S. entrance)	399
Canso Harbor	406
Cape Breton Island	377 to 398
Cape Capstan	483
Cape Chatte	71
Cape Frio	759
Cape Madelien	125 to 127
Cape Magdalen	69
Cape May	567
Cape Norman	2
Cape Pine	29
Cape Race	27
Cape Ray	43
Cape Roseway	443
Cape Rouge	97
Cape Rozier	53
Cape Sable	447
Cape Santa Maria	784½
Cape St. Mary	31
Cape St. Mary	457

C.	No.
Carnacoli Mountain	641
Caracquet Island	317
Cardenas Bay	549
Cardigan Bay	347
Caribbee Islands	601 to 656
Caribou Island	263
Carleton Point	319
Carlsle Bay	655
Carousal Island	73
Carron Point	319
Carter's Island	449
Cascompeque	341
Casles Point	334
Castillo Point	679
Castle Island	525
Castries Harbor	643
Catalina Harbor	9
Catfish Creek	271
Catherina, Santa	771
Cay Diana	551
Cayenne	715 to 724
Cayes Bay	593
Cayo Cruz	553
Cay Piedras	575
Ceara	737
Central America and Mexico	835 to 838
Ceperou Port	721
Chaleur Bay	320 to 323
Champlain	123
Chantry Islands	287
Charles Cape	115
Charlotte Fort	649
Charlotte Town Harbor	353
Chateauguay	175
Chebueto Head	418
Chedabucto Bay	401
Cherry	189
Cherry Island	187
Chester Bay	423
Cheticamp Island	380
Chico Bank	803
Chignecto Bay	483
Chiloe Island	815
Christian Island	297
Christiansstadt Fort	605
Christovao	783
Ciboux Island	383
Cienfuegos Harbor	573
Claire Point	171
Clapperton Island	309
Clark Point	285
Cobequid Bay	479
Coburg	233
Cochinos Bay	575
Cocoa-nut Shoal	647
Coffin Island	435
Colborne Port	359
Coles Shoal	195
Colonia	805
Colorado Point	573

INDEX.

[illegible]

III

No.	No.	No.	No.	No.	No.	
235	José Point, San.....	797	Magellan Strait.....	813	Negra, Barba.....	785
441	Jourmain Island.....	337	Magone Bay.....	424	Negres, Pointe des.....	631
509	Juan de Ullon, San.....	659	Maitland Port.....	263	Negro Harbor.....	444
and Vene-	Juan, Fort San.....	599	Malaguash Bay.....	425 to 427	Negro Island.....	444
681 to 724	Julius Cay.....	539	Malcolm Point.....	330	New Brunswick.....	315 to 338 and 485 to 506
401			Maldonado.....	787	Newfoundland.....	5 to 44
	K.		Manicougan Shoals.....	76	New Grenada, Venezuela, and Guy-	
685	Kamouraska, Grand Isle.....	91	Mann Islands, Grand.....	501	ana.....	681 to 724
595 to 597	Kingston.....	213	Manzanillo Island.....	681	Neuf, Port.....	107
677			Maracaybo.....	687	Nicoya Gulf.....	830
415 to 417	L.		Mariche Point.....	405	Niebla Port Point.....	817
418	Lachine.....	161	Marnham.....	733	Norman, Cape.....	2
57	Lacere, S. point.....	693	Marca.....	781	North Foreland.....	267
13 to 15	La Grande, Sagua.....	556	Marcello, Fort San.....	733	North Point.....	339
406	Laguna de Terminos.....	663	Marcos, Fort San.....	733	Northumberland Strait.....	334
543	La Hacha, Rio de.....	685	Margaree Island.....	379	Norto, Rio Grande do.....	743
845 to 847	Lahualhuala.....	849	Margaretville.....	471	Nottawasaga Island.....	293
845 to 852	Laihuana Port.....	849	Marlegante Island.....	627	Nova Scotia.....	361 to 484
497	Lake Erie.....	259 to 278	Marion River.....	714, 714 1/2	Nuevitas.....	559 to 561
61	Lake Huron.....	283 to 312	Marshall Cove.....	469		
483	Lake Ontario.....	213 to 258	Marta, Santa.....	683	O.	
351	Lake St. Clair.....	281 to 282	Marthe Point, St.....	635	Onhu Island.....	651
845	Lake St. Francis.....	183 to 193	Martin Garcia.....	810	Onk Point.....	330
424	Lake St. Louis.....	163 to 165	Martinique.....	631 to 641	Oakville.....	253
515	Lake St. Peter.....	133 to 141	Maryabo.....	687	Off Grosse Point.....	181
519	Lake Superior.....	313 to 314	Mary, Cape St.....	31	O'Hara Point.....	57
679	La Libertad.....	836	Mary, Cape St.....	457	Ontario, Lake.....	213 to 258
851	Langlais Point.....	113	Maternillos Point.....	561	Original, Point l'.....	174
377	La Plata, Rio de.....	787 to 809	Mauger Beach.....	417	Orleans Island.....	102
439	Lark Islet.....	82	Mauger Cay.....	689	Ottawa River.....	169 to 174
237	Lator Port.....	445	Mau Island.....	849	Otte Creek, Big.....	289
475	La Valtrie.....	145	Maysi, Cape.....	567	Ovolan Island.....	857
815	Lawrence Gulf and River, St.....	45 to 96	McGee's Point.....	185		
825	Lawrence River, St.....	97 to 212	McTavish Point.....	174 1/2	P.	
330	Leprent.....	495	Mel, Island do.....	769	Padre, Cayo Cruz del.....	553
312	Levuka Harbor.....	857	Metway Head.....	433	Panama Shoal.....	793
	Libertad, La.....	836	Metway Port.....	433	Panama.....	833
	Liscomb Island.....	410	Mexico and Central America.....	657 to 680	Panlo, Morro de San.....	735
701	Little Curaçon.....	691	Mexico and Central America, S.W.....		Papete, Port.....	855, 856
313	Little Current.....	307	Const.....	835 to 837	Para.....	725 to 727
527	Little Guann Cay.....	521	Mink Island.....	299	Parana, Rio de.....	739
801	Little Hope Islet.....	439	Miramichi Bay.....	329, 330	Paredon Cay Grande.....	557
581	Liverpool Bay.....	435 to 437	Miscou Island.....	315	Parry Sound Harbor.....	299
423	Liverpool or Pickering.....	535	Moela Island.....	707	Parsborough.....	481
431	Lobos Cay.....	531	Mohawk Island.....	261	Partridge Island (Bay of Fundy).....	481
511	Lonely Island.....	301	Mohendo Harbor.....	828	Partridge Island (Georgian Bay).....	305
153	Long Pilgrims.....	89	Mohlensfels Point.....	691	Partridge Island (St. John's Harbor).....	491
143	Long Point.....	267	Moon Cay, Half.....	677	Patos Lake.....	775 to 786
149	Lorenzo Island.....	829	Monte Video.....	795 to 799	Paul Island, St.....	45 to 47
141	Louisburg Harbor.....	397	Montreal.....	159	Peart Point.....	401
139 to 141	Lucia Island, St.....	643 to 647	Montserrat Island.....	611	Peggy's Point.....	421
289	Lucrecia.....	563	Mont, Point de.....	75	Pelee Island.....	275
579	Luz, Maranham San.....	733	Morant Point.....	581	Pelee Spit.....	277
729	Luzia, Santa.....	758	Morro Castle.....	543	Pembroke Cape.....	811
	Lyndock Island.....	199	Morro de San Paulo.....	755	Pepe.....	579
	M.		Morro Island.....	683	Perdu, Enfant.....	717
203	Maecio.....	745	Mosher.....	429	Pernambuco.....	743
591	Machias.....	503	Moule de Port.....	623	Peter Island.....	461
573	Macoripe Point.....	737	Mouron Islet.....	621	Peter Point.....	293
581 to 585	Madame Island.....	405			Peter Rock.....	236
763 to 765	Madeline, Cape.....	125 to 127	N.		Petit Terre.....	613
404	Magdalen, Cape.....	69	Nassau Harbor.....	515	Petit Passage.....	463
17 to 21	Magdalen Islands.....	51	Naufregados, Punta dos.....	771	Peyrera, Christavao.....	783
289			Needham Point.....	655	Pickering or Liverpool.....	245

Pietou Harbor	No. 365	Punta Corona	No. 815	San José de Acuña	No. 835
Pietou Island	367	Punta dos Naufragados	771	San Juan de Ulloa	659
Piedras Cay	549			San Luiz (Maranhão)	733
Piedras Cay, N. part	575	Q.		San Marcello, Fort.	753
Pierre Bay, St.	639	Quaco	489	San Marcos, Fort.	733
Pierre des Bequets, St.	119	Queen's Wharf (Toronto)	249	San Paolo, Morro de	755
Pierre, Isle à la	143	Quinte, Bay of	521, 222	San Salvador, Bahia, or	751
Pierre Island, St.	35 to 39	Quiriquita Island	821	Santa Anna	735
Pigeon Island	218			Santa Barbara Island	757
Pilgrims, Long	89	R.		Santa Catharina Island	771
Pillar, Stone	95	Race, Cape	27	Santa Clara Island	831
Pilots' Point	559	Race Island	839	Santa Cruz	545
Pine, Cape	29	Ragged Point	651	Santa Cruz Fort	763
Pines, Isle of	579	Raisins, Isle Aux	139	Santa Cruz Island	603 to 605
Pinzones, Los	549	Rancheria Point	556	Santa Luzia	758
Planquata Cay	535	Range Light	307	Santa Maria, Cape	764
Plata, Rio de la	787 to 809	Ray, Cape	43	Santa Marta	683
Platon Point	109	Raza Island	761	Santo Domingo	587 to 597
Playa Ancha Point	823	Red Island Bank	81	Santo Domingo	589
Plum Point	583	Red Islet	83	Santos	767
Point Amour	3	Red Rock	303	Savannah Port	684
Pointe à Pitre	619	Repentigny	151	Scarborough Point	763
Pointe des Negres	631	Richelieu	111	Scotari Island, N.E. point	393
Point aux Trembles	157	Richibucto	333	Scotari Island, W. end	395
Point of Beach	387	Richmond Harbor	343	Scotch Bonnet Island	225
Point Claire	169 to 171	Rich Point	4	Scotia, Nova	361 to 484
Point du Lac	131	Rico Island, Puerto	599	Senecow Head	355
Point de Monts	75	Rif Fort	689	Seal Island	453
Point, Father	77	Rimousky	77	Seaman's Point	359
Point Indio (light-ship)	801	Rio de Janeiro	763 to 765	Sea Wolf Island	379
Point Langlais	113	Rio de la Hache	685	S. entrance, Canso Gut	399
Point l'Original	174	Rio de la Plata	787 to 809	Shaftebury	307
Point Pleasant	221	Rio Grande do Norte	741	Shediac	335
Point St. Pierre	119	Rio Grande do Sul	773	Shelburne Harbor	443
Point Rich	4	Rivière du Loup (light-ship)	135	Shingle Beach	440
Point Tupper	375	River St. Lawrence	97 to 212	Ship harbor, Canso Gut	375
Pomquet, St. George Bay	371	River St. Lawrence	81	Sincoe	217
Portage Beach	327	Roqueta Island	837	Sisal	667
Portage Island	325	Roseau Bay	629	Sissiboo River	465
Port au Prince (Haiti)	595 to 597	Roseway, Cape	443	Snake Island	215
Port Ebert Harbor	440	Rouge, Cape	97	Society Islands	853 to 858
Port Espana	690	Royale Island	715	Sombbrero Island	607
Port Hood	377	Rozier Cape	53	South Cape	49
Port Lahaina (Lahinaluna)	849	Rugged Island Harbor	441, 442	Southwestern Wolf Island	468
Port Latour	445			Spear, Cape	33
Port Neuf	107	S.		Spectacle Shoal	205
Port Papete	855, 856	Sable, Cape	447	Spencer Point	479
Port Santa Cruz	545	Sagua la Grande	556	Spit, Pelee	277
Port Savanilla	684	Saguenny River	82	Stanley Port	273
Port Stanley	273	Sal Cay	533 to 535	Stirrup Cay, Great	513
Port St. Andrew	469	Salmon Point	224	Stone Island	143
Port St. Francis	129	Salutation Head	355	Stone Pillar	95
Port Williams	469	Salut Islets	715	Straw Shoal, Jack	293
Pots, Brandy	87	Samana Bay	587	St. Andrew, Port	499
Presque Isle	529	Sambro	419	St. Antoine	103
Prim Point	467	Sand Point	399	St. Christopher Island	609
Prince Edward Island	339 to 360	Sandy Head Point	59	St. Clair, Lake	591 to 592
Prunes, Isle Aux	149	Sandy Island	341	St. Croix	105
Puakaa Point	845	Sandy Point	813	St. Croix Island	603 to 605
Pubnico Harbor	451	Sandwich Islands	845 to 852	St. Francis Lake	193 to 193
Puerto Cabello	685	San Antonio	537	St. Francis Port	129
Puerto Rico Island	599	San Antonio, Fort	751	St. George Cape	369
Pugwash Harbor	359	San Carlos de Ancud	815	St. Ignace	313
Punta Arenas	835	San Francisco	747	St. John's Harbor (Newfoundland)	17 to 21
		San Francisco, Convent of	660		

INDEX.

V

No.	No.	No.	No.
8354	St. John's Harbor (N. Brunswick) 491 to 493	Tapion Battery 643	Vietle Ville Shoal 645
659	St. Lawrence Point 102	Telegraph Island 222	Vincent Island, St. 649
733	St. Lawrence Gulf and River 45 to 96	Thames River 281	Virgin and Caribbee Islands 601 to 656
733	St. Lawrence River 97 to 212	Therese, St. 155	
733	St. Louis, Fort 633	Thomas, St. 601	W.
755	St. Louis Lake 163 to 165	Toronto 247 to 249	Wade Shoal 167
751	St. Lucia Island 643 to 648	Tortuga Point 819	Wadham, Offer 5
735	St. Margaret's Bay 421	Tower, Old Lookout 661	West Arlehat Harbor 404
757	St. Mary, Cape 31	Traverse 147	West Coast of South America 815 to 834
771	St. Mary, Cape (Bay of Fundy) 457	Traverse, South 93	Western Light (St. Peter's Lake) 137
831	St. Paul Island 45 to 47	Trembles, Point aux 157	West Ironbound Island 431
545	St. Peter's Lake 133 to 139	Trinidad 699 to 701	Weymouth 465
763	St. Pierre des Becquets 119	Truxillo 679	Whitby Harbor 243
603 to 605	St. Pierre Island 35 to 39	Turks Island 599	White Cliff 591
758	St. Roque Shoals 92, 93	Turneff Cays 660	White Head Island 409
764	St. Therese 155	Tusket River 449	Wicked Point 324
683	St. Thomas 601		William Island 411
587 to 597	St. Vincent Island 649	U.	Williams, Port 469
589	St. Travers (light-ship) 93	Ullon, Fort San Juan de 659	Wolfe Island 211
767	Sulphur Island 311		Wolfe Island, Southwestern 468
684	Superior, Lake 313	V.	
703	Surengonea 775	Vache Isle 593	X.
393	Surinam 713	Valdivia 817	Xagua Harbor 573
395	Swallow's Tail 501	Valparaiso 823	Xicalango Island 663
225	Sydney 328, 389	Valtrie, La 145	
361 to 484		Vancouver Island 839 to 841	Y.
355	T.	Venus Point 853	Yarmouth 455
433	Tahiti 853	Venezuela and Guyana, New Gren- 681 to 724	Yeo Point 217
359	Talcahuano 821	ada 659, 660	
379	Tampico 657	Vera Cruz 659, 660	Z.
389		Video, Monte 795 to 799	Zaparo Island 687
307			
335			
443			
440			
375			
217			
667			
465			
215			
553 to 858			
607			
49			
468			
23			
205			
479			
277			
273			
513			
143			
95			
203			
499			
103			
608			
581 to 582			
105			
603 to 605			
183 to 193			
129			
369			
313			
ndland), 17 to 21			